

**Maintenance Diagrams
for
MODELS T25/T50/T80**

**Maintenance Diagrams
for
MODELS T25/T50/T80**

March 1981

[illegible]

TABLE OF CONTENTS

DRAWING NUMBER	REV LTR	LD NO	DESCRIPTION	DRAWING NUMBER	REV LTR	LD NO	DESCRIPTION	DRAWING NUMBER	REV LTR	LD NO	DESCRIPTION
---	---	--	Logic Symbolology Sheet 1	13442-001	C	5.1	Index and Sector	12336-001	Z1		Schematic, Read Write (Sheets 10, 11)
---	---	--	Logic Symbolology Sheet 2	13442-001	S	6.0	R/W Matrix - T25, T50	12342-001	M		Schematic, Logic I (Sheets 6, 7, 8)
13442-001	V	--	Title Page Logic Diagrams	13442-001	S	6.0.1	R/W Matrix - T80	13329-001	N		Schematic, Power Supply (Sheet 1)
13442-001	M	--	Module Location Chart					13343-001	B1		Schematic, AC Input Control (Sheet 1)
13442-001	C	1.0	Exerciser Interface					13394-001	F		Schematic, Sequence Relay (Sheet 1)
13442-001	T	1.1	Input Interface and Degate	13442-001	E	6.1	Read Amp, C.O.D., and Heads Unsafe - T25, T50	14440-001	T		Schematic, Data Separator (Sheet 9, 10)
13442-001	E	1.2	Input Interface	13442-001	K	6.1.1	Read Amp, C.O.D., and Heads Unsafe - T80	14556-001	AG		Schematic, Servo Control (Sheets 12, 13)
13442-001	G	1.3	Bus/Tag Decode	13442-001	P	6.2	Data Separator - T25, T50	14912-001	N		Schematic, Servo Preamp (Sheet 6)
13442-001	T	2.0	Switches and Interlocks	13442-001	U	6.2.1	Data Separator - T80	15141-001	R		Schematic, Read/Write Matrix (Sheets 11, 12)
13442-001	G	2.1	Sequence Oscillator Counter	13442-001	U	6.3	Data Separator Data and Clocks - T25, T50	15847-001	M		Schematic Logic II (Sheets 5, 6, 7, 8)
13442-001	V	2.2	Pack On and Sequence Logic	13442-001	U	6.3.1	Data and Clocks - T80	17530-001	R		Schematic, Data Separator (Sheets 8, 9)
13442-001	P	2.3	Sequence Logic and Relay Drivers	13442-001	U	6.4	Data Separator Fast Lock and Admk Control - T25, T50	17589-001	L		Schematic, Read/Write Matrix (Sheets 11, 12)
13442-001	P	2.4	AC Control and Distribution	13442-001	U	6.4.1	Admk Control and Phase Sync - T80	17771-001	M		Schematic, Read Limiter (Sheets 12, 13)
13442-001	V	2.5	Speed Detection	13442-001	F	6.5	Data Separator - Write Encode - T25, T50	18099-001	J		Schematic, Logic I (Sheets 6, 7, 8)
13442-001	T	3.0	Servo Control	13442-001	U	6.5.1	Write Encode - T80	18406-001	H		Schematic, Read/Write Matrix (Sheets 11, 12)
13442-001	G	3.1	Servo Control Logic	13442-001	U	6.5.2	Write Encode - T80	18465-001	K1		Schematic, Read/Write (Sheets 9, 10)
13442-001	F	3.2	Servo Control and Ready	13442-001	U	6.5.3	Write Encode - T80	18752-001	T		Schematic, Servo Control (Sheets 12, 13)
13442-001	T	3.3	HDL and HDLDDLY, DIFFCLOCK and UTH	13442-001	T	7.0	Error Detection	19508-001	M		Schematic, Logic III (Sheets 7, 8, 9)
13442-001	F	3.4.0	Subtractor Control and Illyl Logic - T50, T80	13442-001	T	7.1	DCUSF, Emergency Retract and Module in Interlock	*22985-XXX	E		Schematic, Read/Write Matrix (Sheets 11, 12)
13442-001	F	3.4.1	Subtractor Control and Illyl Logic - T25	13442-001	T	7.2	Seek Incomplete	22705-001	C		Schematic, Read Limiter/Amdet/R/W Protect (Sheets 12, 13)
13442-001	T	3.5	CAR and Subtractor - T50, T80	13442-001	C	8.0	Attention and EOC				
13442-001	T	3.5.1	CAR and Subtractor - T25	13442-001	P	8.1	Output Interface				
13442-001	E	3.6.0	Difference Counter - T50, T80	13442-001	V	9.0.1	Power Supply Trident				
13442-001	C	3.6.1	Difference Counter - T25	13442-001	V	9.1	Power Supply 5V Regulator				
13442-001	C	3.7	D/A Converter and Amplifier Driver								
13442-001	F	3.8	Power Amp and Linear Motor								
13442-001	T	4.0	Servo Head Preamp and POWER ON/								
13442-001	T	4.1	PLO - T25, T50								
13442-001	T	4.1.1	PLO - T80	12332-001	AA1		Schematic, Connector Panel (Sheet 4)				
13442-001	T	4.2	POSITION, UTH, HDLD, AGC, GAPCLK								
13442-001	T	5.0	Ready Indicator and Read Only								

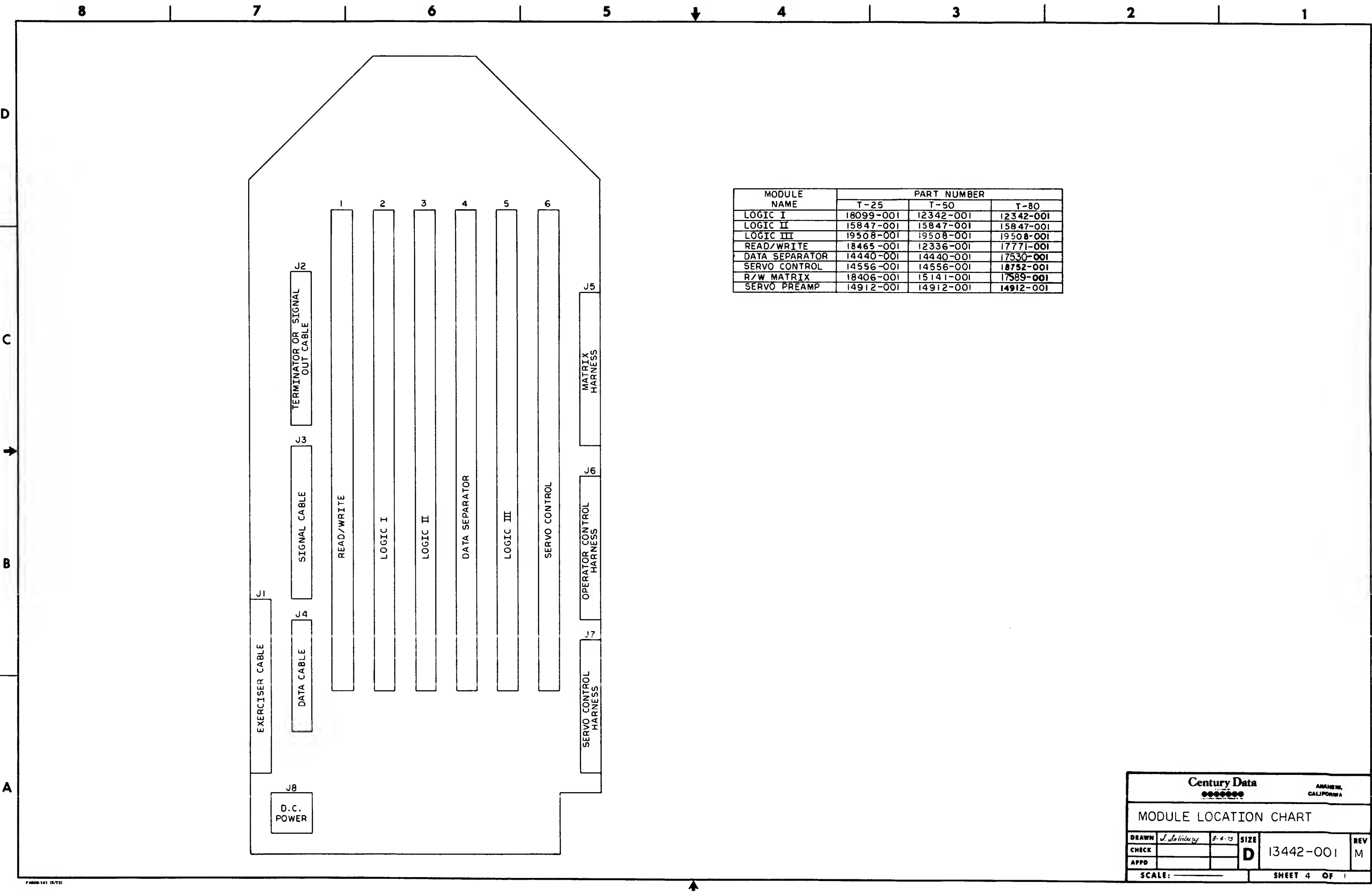
*22985-001 USED ON T25 UNITS
 22985-002 USED ON T50 UNITS

LOGIC DIAGRAM INDEX AND REVISION CONTROL

SH	DIAGRAM INDEX	REV
5	LD1.0 EXERCISER INTERFACE	C
6	LD1.1 INPUT INTERFACE AND DEGATE	T
7	LD1.2 INPUT INTERFACE	E
8	LD1.3 BUS / TAG DECODE	G
9	LD2.0 SWITCHES AND INTERLOCKS	T
10	LD2.1 SEQUENCE OSCILLATOR COUNTER	G
11	LD2.2 PACK ON AND SEQUENCE LOGIC	V
12	LD2.3 SEQUENCE LOGIC AND RELAY DRIVERS	P
13	LD2.4 AC CONTROL AND DISTRIBUTION	P
14	LD2.5 SPEED DETECTION	V
15	LD3.0 SERVO CONTROL	T
16	LD3.1 SERVO CONTROL LOGIC	G
17	LD3.2 SERVO CONTROL AND READY	F
18	LD3.3 HOLD AND HOLDDY, DIFF. CLOCK AND UTH	T
19	LD3.4.0 SUBTRACTOR CONTROL AND ILLCYL LOGIC T50, T80	F
20	LD3.4.1 SUBTRACTOR CONTROL AND ILLCYL LOGIC T25	F
21	LD3.5.0 CAR AND SUBTRACTOR T50, T80	T
22	LD3.5.1 CAR AND SUBTRACTOR T25	T
23	LD3.6.0 DIFFERENCE COUNTER T50, T80	E
24	LD3.6.1 DIFFERENCE COUNTER T25	C
25	LD3.7 D/A CONVERTER AND AMPLIFIER DRIVER	C
26	LD3.8 POWER AMP AND LINEAR MOTOR	F
27	LD4.0 SERVO HEAD PREAMP AND POWER ON/	T
28	LD4.1 PLO T25, T50	T
29	LD4.1.1 PLO T80	T
30	LD4.2 POSITION, UTH #HOLD, AGC, 6APCLK	T
31	LD5.0 READY INDICATOR AND READ ONLY	T
32	LD5.1 INDEX AND SECTOR	C
33	LD6.0 R/W MATRIX T25, T50	T
34	LD6.0.1 R/W MATRIX T80	K
34.1	LD6.0.2 R/W MATRIX POWER T25, T50	S
34.2	LD6.0.3 R/W MATRIX POWER T80	S
35	LD6.1 READ AMP, C.O.D AND HEADS UNSAFE T25, T50	E
36	LD6.1.1 READ AMP, C.O.D AND HEADS UNSAFE T80	K
37	LD6.2 DATA SEPARATOR T25, T50	P
38	LD6.2.1 DATA SEPARATOR T80	U
39	LD6.3 DATA SEPARATOR DATA AND CLOCKS T25, T50	U
39.1	LD6.3.1 DATA AND CLOCKS T80	U
40	LD6.4 DATA SEPARATOR FAST LOCK AND ADMK CONTROL T25, T50	F
41	LD6.4.1 ADMK CONTROL AND PHASE SYNC T80	U
42	LD6.5 DATA SEPARATOR - WRITE ENCODE T25, T50	F
43	LD6.5.1 WRITE ENCODE T80	U
43.1	LD6.5.2 WRITE ENCODE T80	U
43.2	LD6.5.3 WRITE ENCODE T80	U
44	LD7.0 ERROR DETECTION	T
45	LD7.1 DCUSF EMERGENCY RETRACT AND MODULE IN INTERLOCK	T
46	LD7.2 SEEK INCOMPLETE	T
47	LD8.0 ATTENTION AND EOC	C
48	LD8.1 OUTPUT INTERFACE	P
49	LD9.0.1 POWER SUPPLY TRIDENT	V
50	LD9.1 POWER SUPPLY 5V REGULATOR	V

REVISIONS			
REV	ZONE	DESCRIPTION	APPROVAL & DATE
E		REVISED AND REDRAWN, EXTENSIVE CHANGES	6.9.82 J. P. [Signature] 12/17/75
F		REVISED AND REDRAWN, EXTENSIVE CHANGES, SEE REV E FOR WAS CONDITION	2.4.82 J. P. [Signature] 11-30-74
FI		PRODUCTION RELEASE PER ECO 11552	2.1.82 J. P. [Signature] 11-30-74
G		REVISED PER ECO 12512	12/17/75 J. P. [Signature] 12/17/75
H		REVISED PER ECO 12514	12/17/75 J. P. [Signature] 12/17/75
J		REV. PER ECO 12905	12/17/75 J. P. [Signature] 12/17/75
K		REV PER ECO 12959	12/17/75 J. P. [Signature] 12/17/75
L		CHGD SIG NAME AT 3A/B-B40 ON SH 31 WAS; DCUSF/ (LD1.3) PER ECO 13233	10-3-77 J. P. [Signature] 10-3-77
M		SHT 4, LOGIC III, PNT-25, T50, T80 WAS 12348-001 PER ECO 13442	11-30-77 J. P. [Signature] 11-30-77
N		REVISED PER ECO 13545	12-1-77 J. P. [Signature] 12-1-77
P		REVISED PER ECO 13737	12-1-77 J. P. [Signature] 12-1-77
R		REVISED PER ECO 14541	12-1-77 J. P. [Signature] 12-1-77
S		REVISED PER ECO 14449	12-1-77 J. P. [Signature] 12-1-77
T		REVISED PER ECO 14432	12-1-77 J. P. [Signature] 12-1-77
U		REVISED PER ECO 14707	12-1-77 J. P. [Signature] 12-1-77
V		REVISED PER ECO 13442-V	12-1-77 J. P. [Signature] 12-1-77

MODEL NO. FIRST USE T50		NEXT ASSY FIRST USE	
UNLESS OTHERWISE SPECIFIED		DRAWN 6. DREWRY 11-25-75	
DIMENSIONS ARE IN INCHES		CHECK	
TOLERANCES ON		APPD	
DECIMALS ANGLES		APPD	
XX ± .001 ± .005		FINISH	
		MATERIAL	
		SCALE: NONE	
		SIZE D	
		DWG NO. 13442-001	
		REV V	
SURFACE ROUGHNESS PER MIL-STD-10		DO NOT SCALE THIS DRAWING	
		WEIGHT	
		SHEET 1 OF 50	

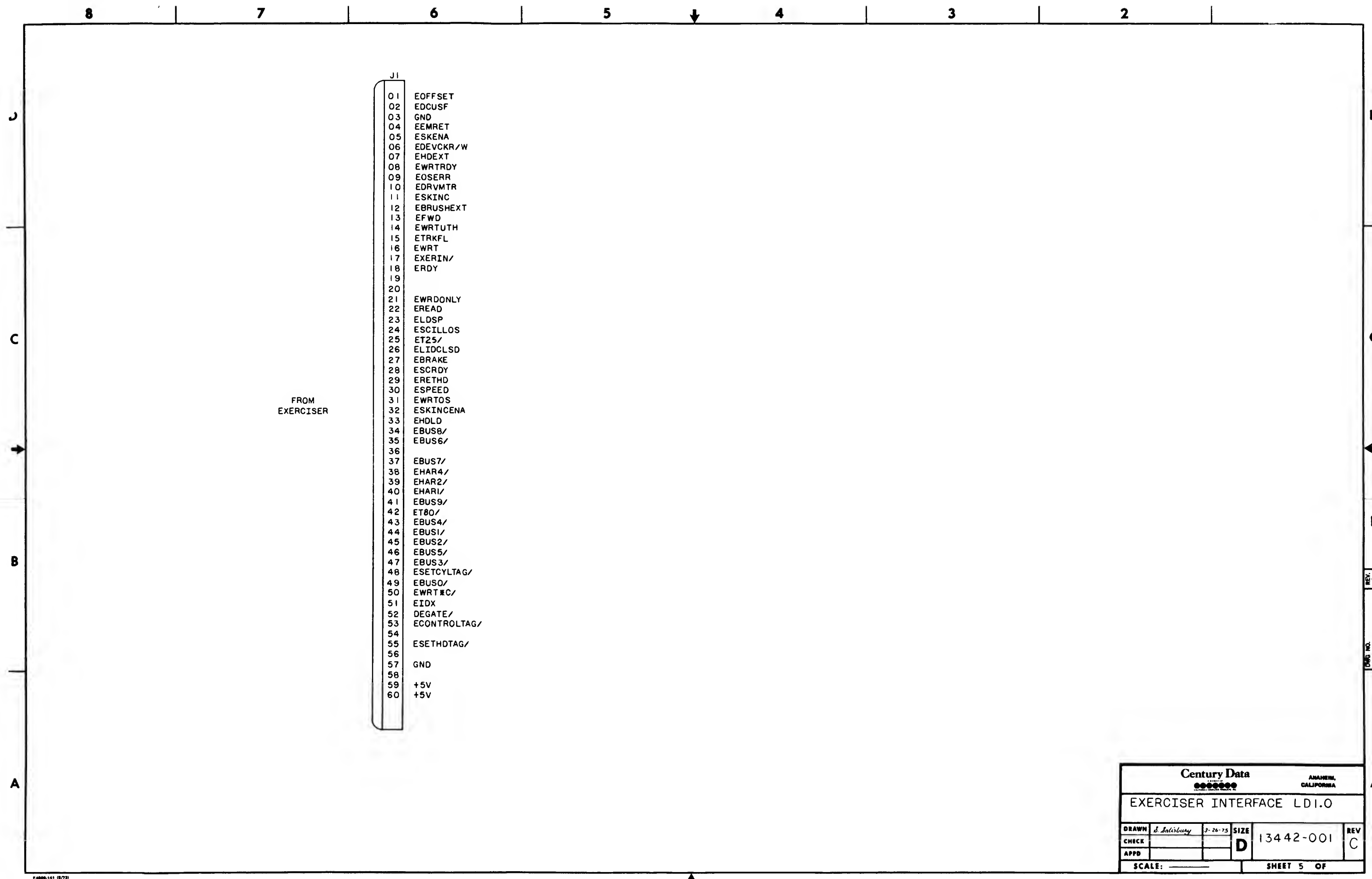


Century Data

ANAHEIM, CALIFORNIA

MODULE LOCATION CHART

DRAWN	J. Salisbury	8-6-75	SIZE	D	13442-001	REV M
CHECK						
APPD						
SCALE:				SHEET 4 OF 1		



- J1
- 01 EOFFSET
- 02 EDCUSF
- 03 GND
- 04 EEMRET
- 05 ESKENA
- 06 EDEVCKR/W
- 07 EHDEXT
- 08 EWRTRDY
- 09 EOSERR
- 10 EDRVMTR
- 11 ESKINC
- 12 EBRUSHEXT
- 13 EFWD
- 14 EWRUTUTH
- 15 ETRKFL
- 16 EWRT
- 17 EXERIN/
- 18 ERDY
- 19
- 20
- 21 EWRDONLY
- 22 EREAD
- 23 ELDSP
- 24 ESCILLOS
- 25 ET25/
- 26 ELIDCLSD
- 27 EBRAKE
- 28 ESCRDY
- 29 ERETHD
- 30 ESPEED
- 31 EWRTOS
- 32 ESKINCENA
- 33 EHOLD
- 34 EBUS8/
- 35 EBUS6/
- 36
- 37 EBUS7/
- 38 EHAR4/
- 39 EHAR2/
- 40 EHARI/
- 41 EBUS9/
- 42 ET80/
- 43 EBUS4/
- 44 EBUS1/
- 45 EBUS2/
- 46 EBUS5/
- 47 EBUS3/
- 48 ESETCYLTAG/
- 49 EBUS0/
- 50 EWRT#C/
- 51 EIDX
- 52 DEGATE/
- 53 ECONTROLTAG/
- 54
- 55 ESETHDTAG/
- 56
- 57 GND
- 58
- 59 +5V
- 60 +5V

FROM
EXERCISER

Century Data		ANAHEIM, CALIFORNIA	
EXERCISER INTERFACE LD1.0			
DRAWN	J. Salisbury	3-26-75	SIZE
CHECK			D
APPD			
SCALE:		SHEET 5 OF	

8

7

6

5

↓

4

3

2

1

D

D

C

C

→

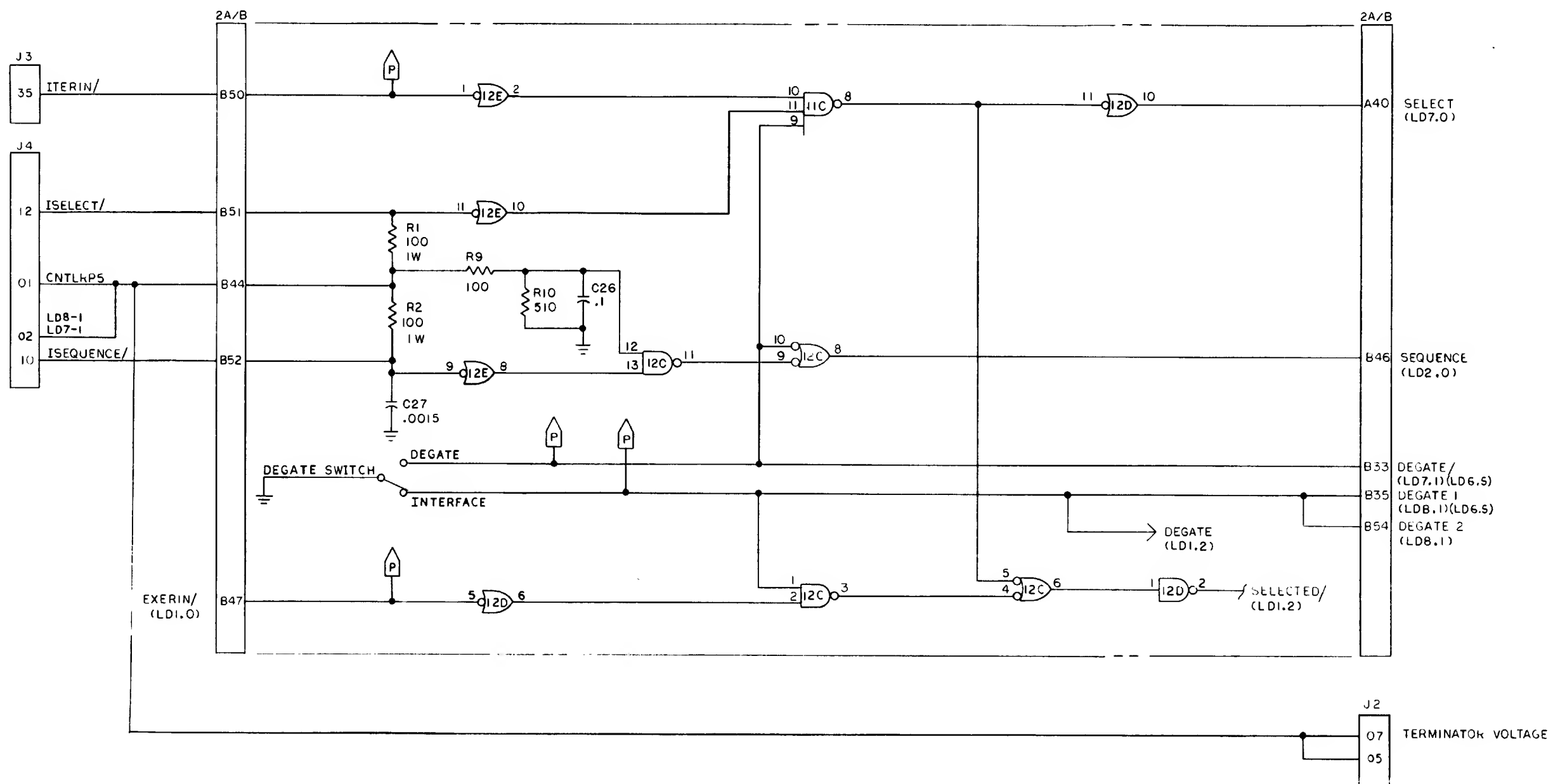
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B

B

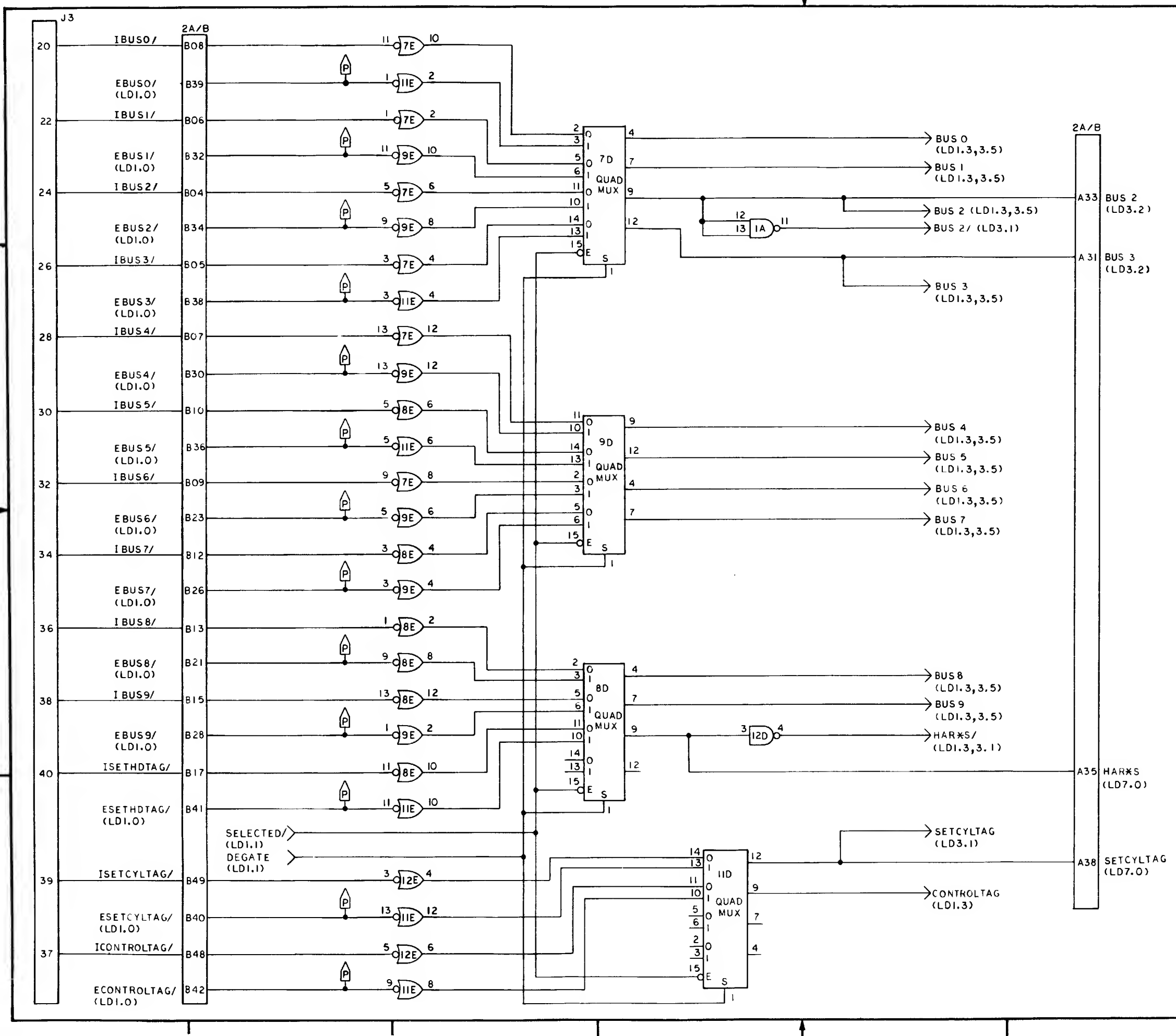
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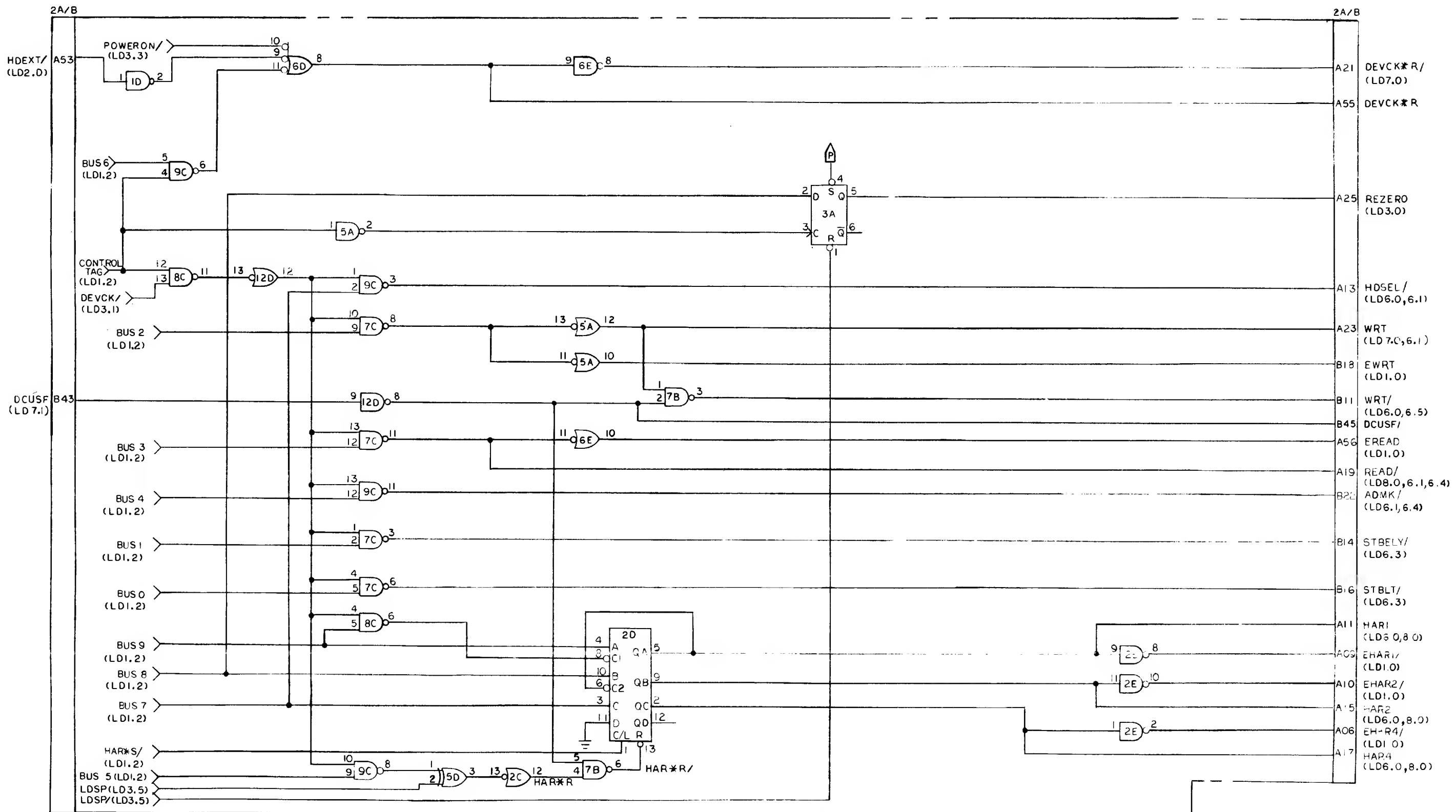
CENTURY DATA SYSTEMS, INC. ANAHEIM, CALIFORNIA				
INPUT INTERFACE AND DEGATE LDI.1				
DRAWN	J. R. Roney	12-13-74	SIZE	
CHECK				13442-001
APPD				REV T
SCALE: ———			SHEET 6 OF	


REV. T
13442-001
CDS NO.

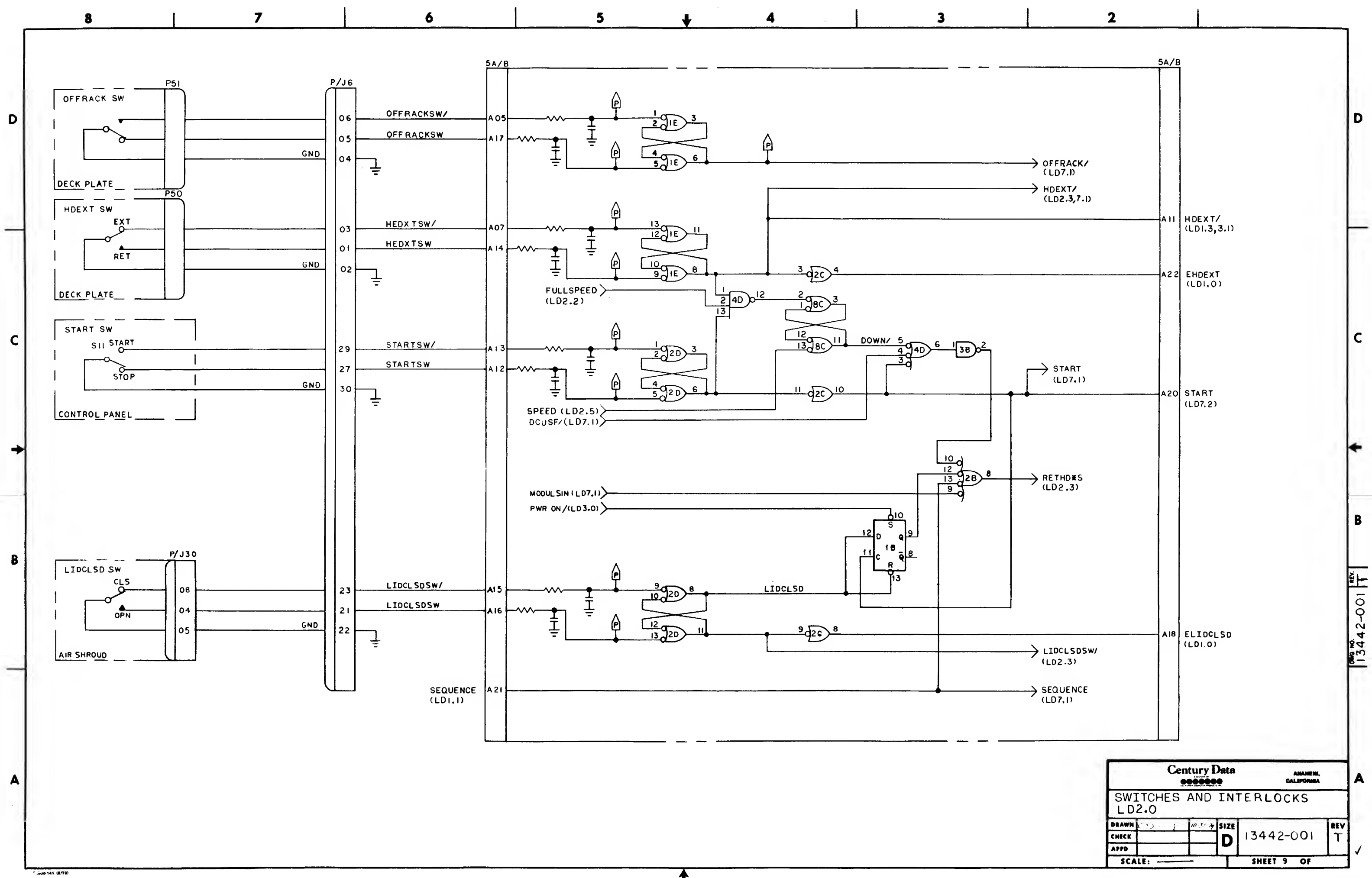


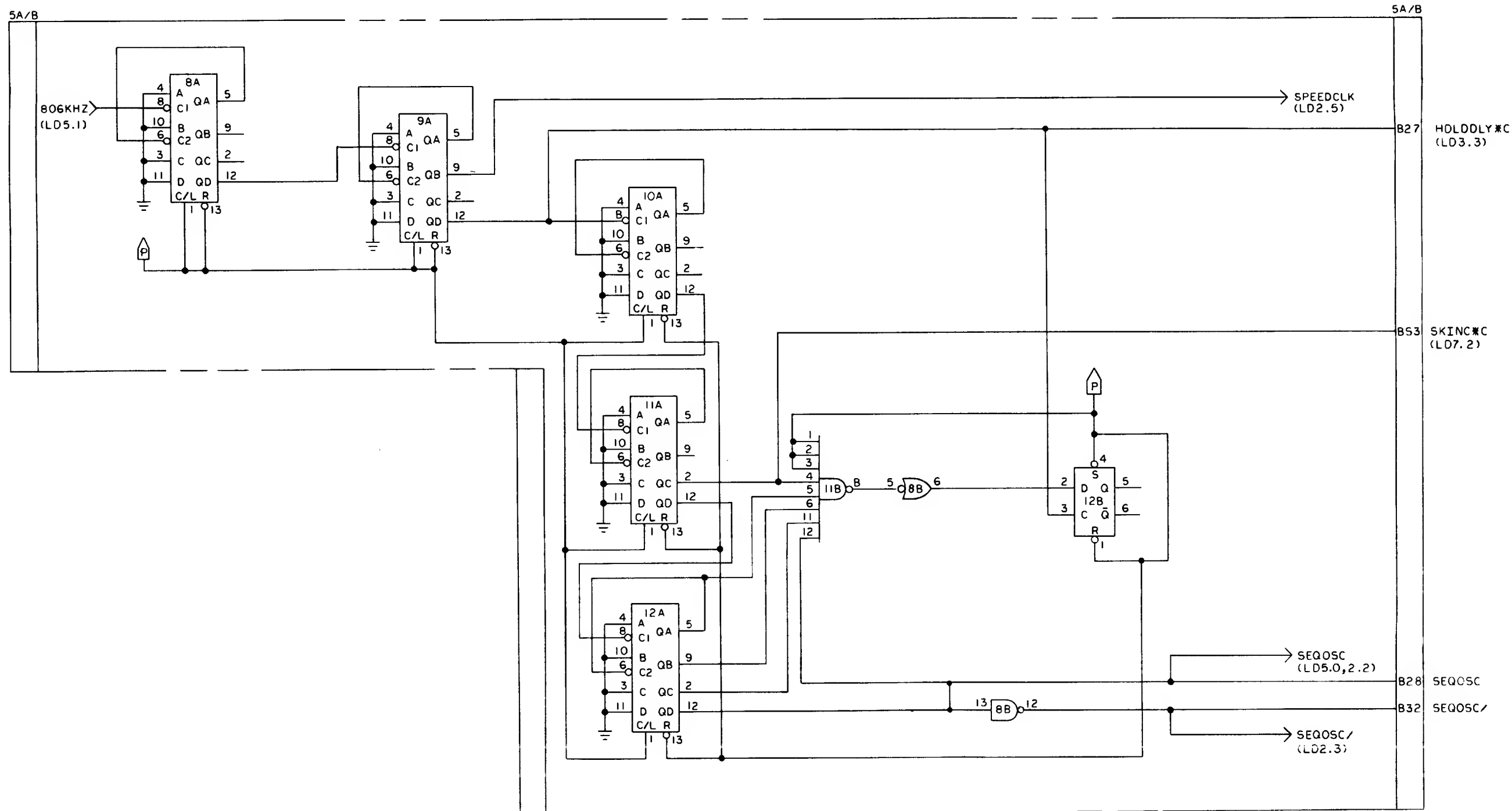
CENTURY DATA SYSTEMS, INC. ANAHEIM, CALIFORNIA			
INPUT INTERFACE LD1.2			
DRAWN	CHECK	SIZE	REV
			13442-001 E
APPD	SCALE:		SHEET 7 OF

13442-001



 CENTURY DATA SYSTEMS, INC. ANAHEIM, CALIFORNIA			
BUS/TAG DECODE LD 1.3			
DRAWN <i>G. Dewey</i>	CHECK 	SIZE 2-1/2" x 3-1/2"	REV G
APPD 			
SCALE:		SHEET 8 OF	





CENTURY DATA SYSTEMS, INC. ANAHEIM, CALIFORNIA			
SEQUENCE OSCILLATOR COUNTER (LD2.1)			
DRAWN	<i>J. Salisbury</i>	12-3-74	SIZE
CHECK			D
APPD			13442-001
SCALE: _____			REV G
SHEET 10 OF			

REV G
13442-001

D

C

B

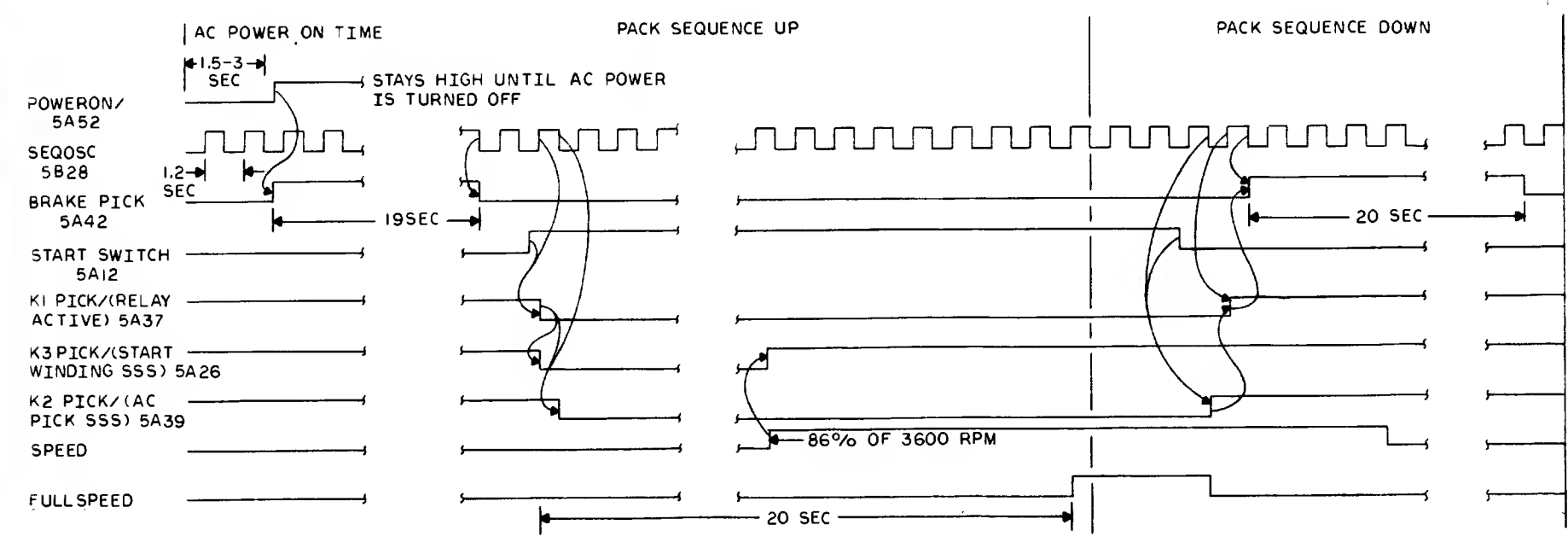
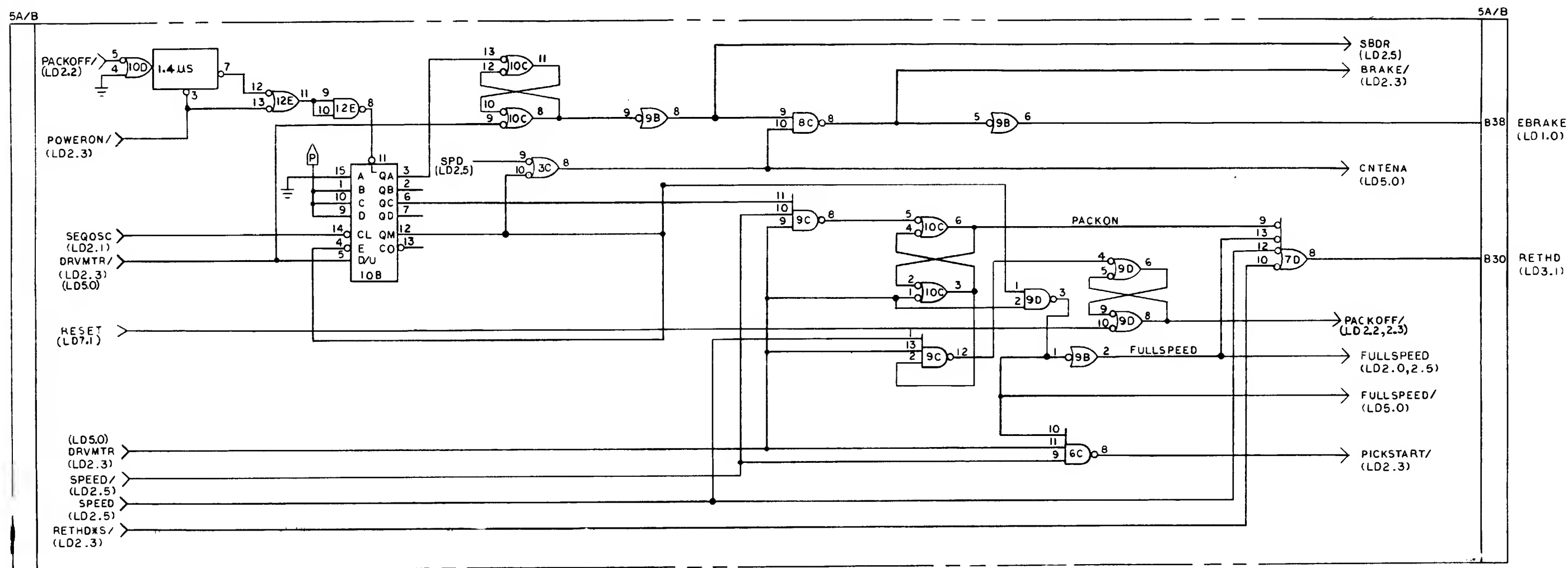
A

D

C

B

A



THE FOLLOWING CONDITIONS MUST BE MET TO INITIATE PACK SEQUENCE UP.

TERM	BACK PANEL PIN NO.	SIGNAL LEVEL
1 MODULSIN/	5A09	L
2 SEQUENCE	5A21	H
3 LIDCLSDSW	5A16	H
4 DCUSF	5A29	L
5 BRAKE/		H
6 HDEXT/	5A11	H
7 START	3B19	H

THE FOLLOWING CONDITIONS MUST BE MET TO INITIATE PACK SEQUENCE DOWN.

TERM	BACK PANEL PIN NO.	SIGNAL LEVEL
1 START	3B19	L
2 HDEXT/	5A11	H
3 RETHD*5		H

Century Data
ANALOG, CALIFORNIA

PACK ON AND SEQUENCE LOGIC (LD2.2)

DRAWN C. Denny 10-18-74

CHECK

APPD

SIZE D

13442-001

REV V

SCALE: SHEET 11 OF

13442-001 V

8

7

6

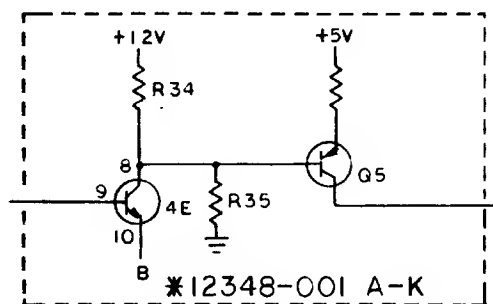
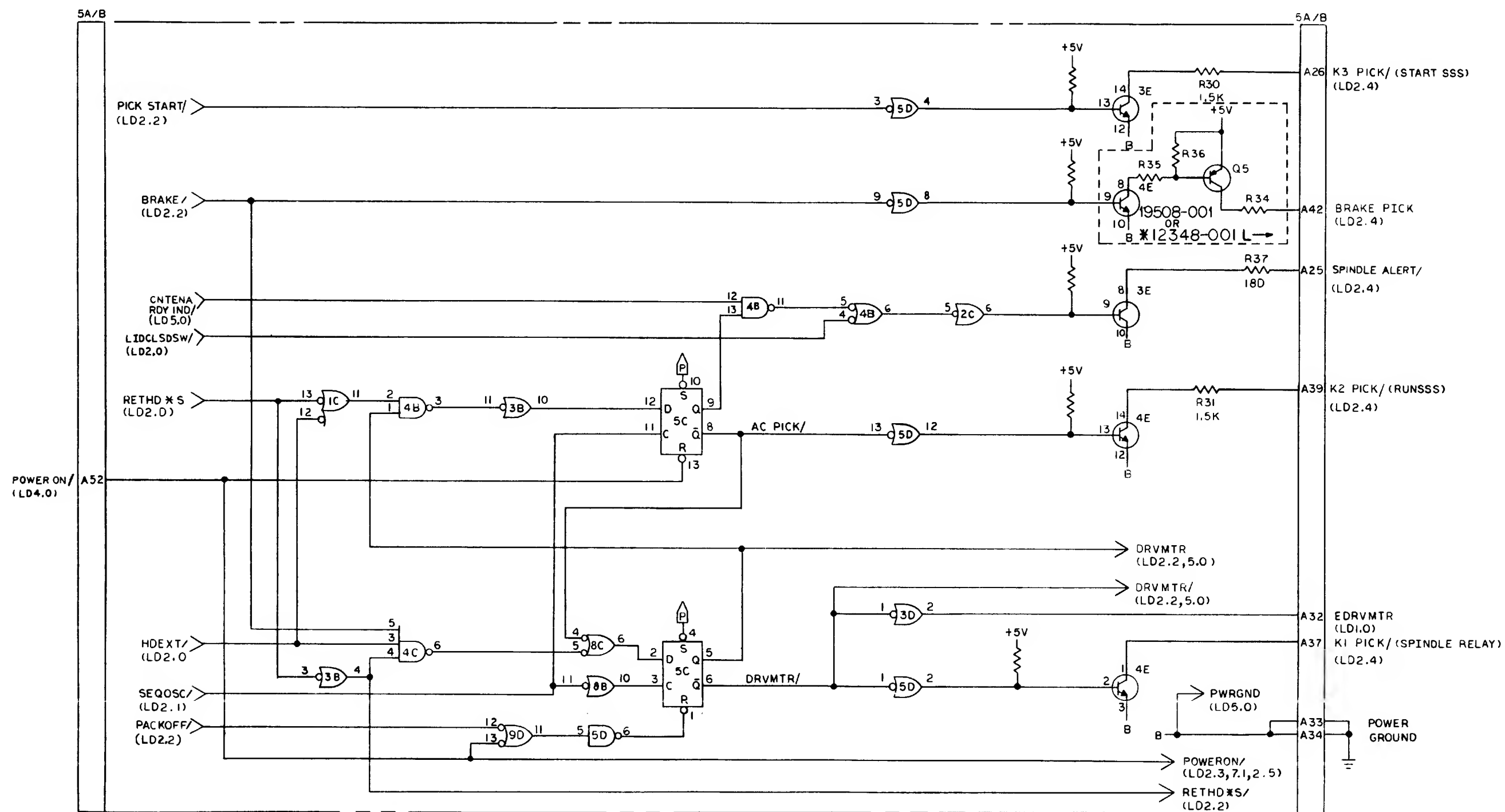
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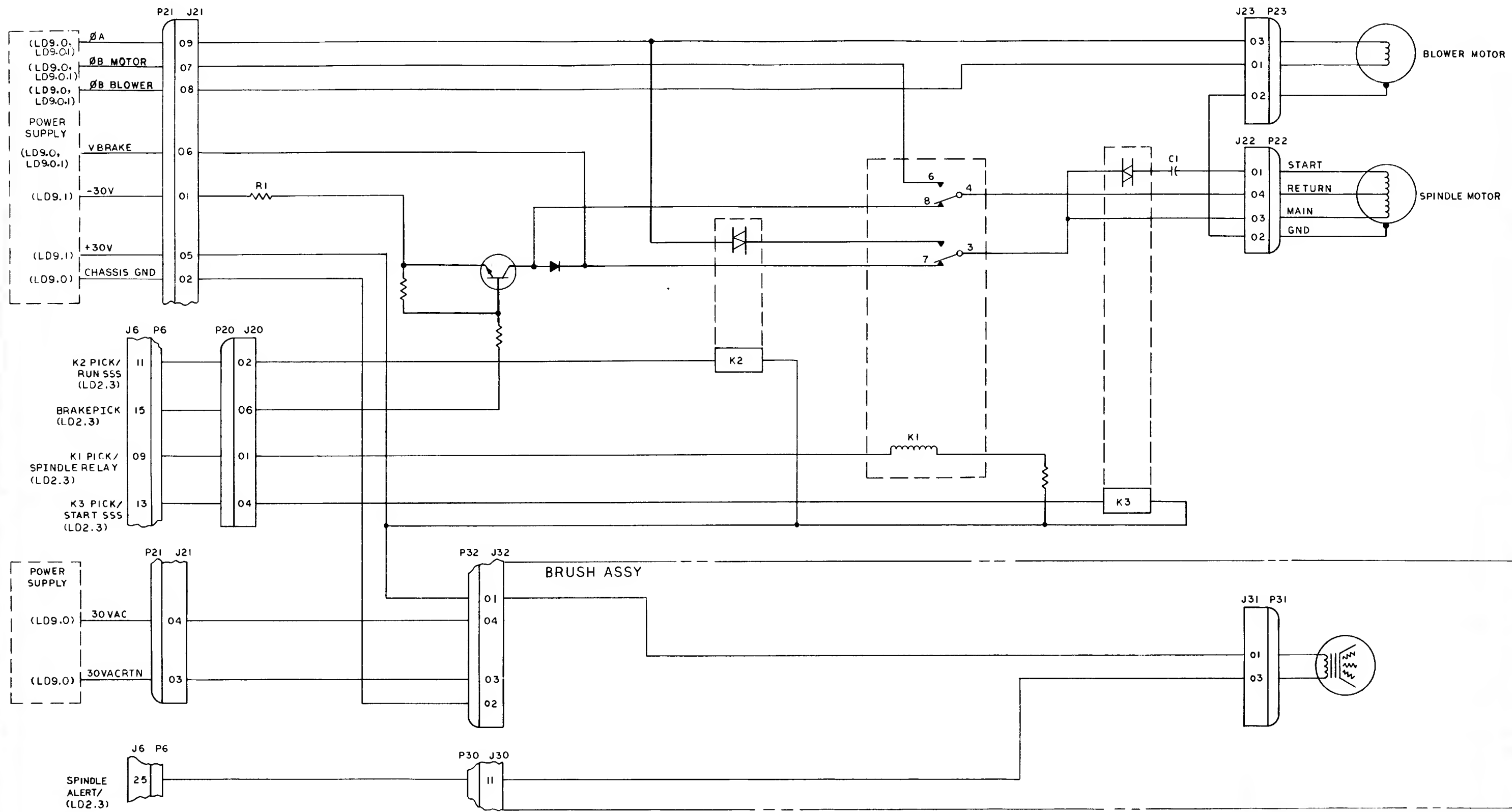
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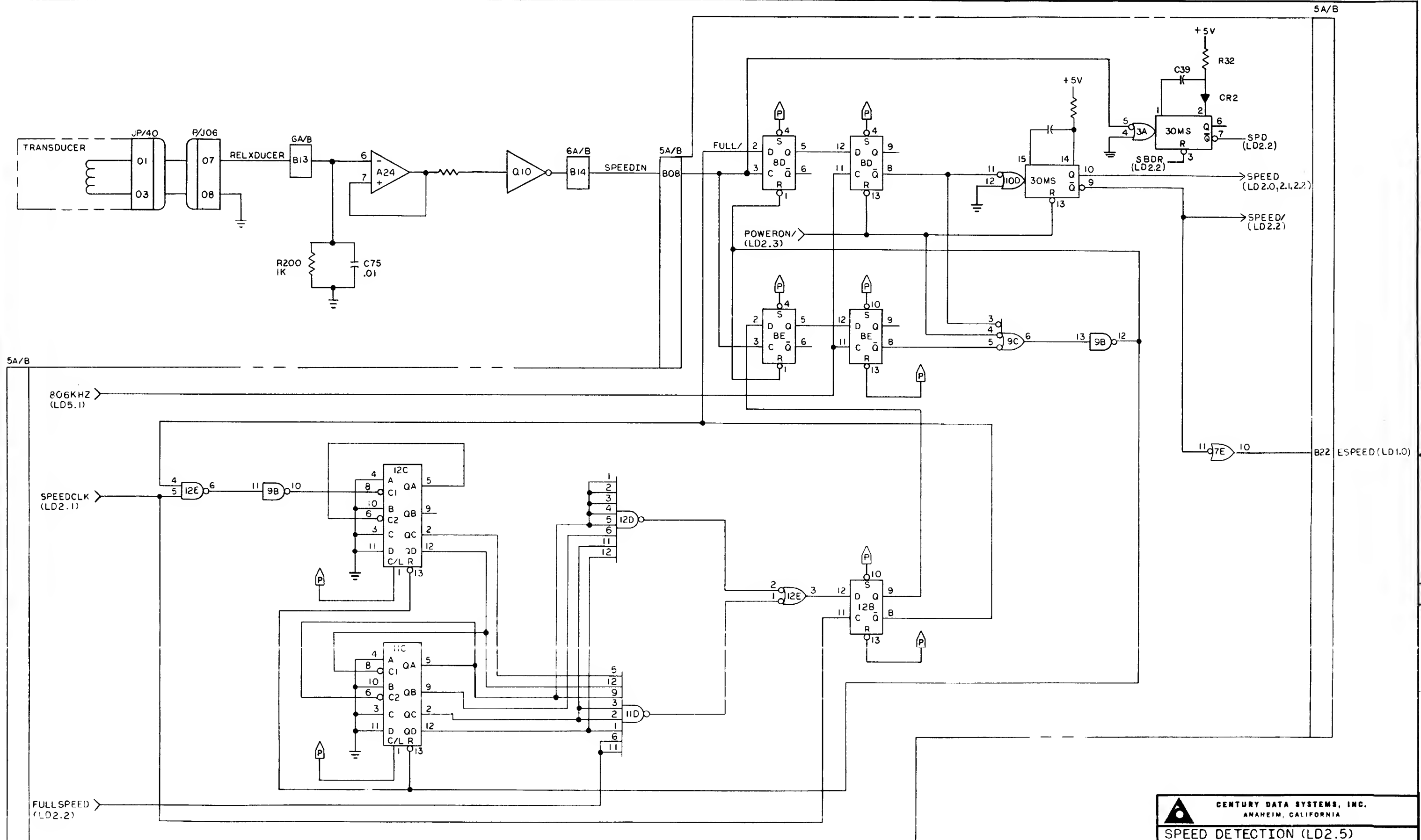
2


1



CENTURY DATA SYSTEMS, INC. ANAHEIM, CALIFORNIA			
SEQUENCE LOGIC AND RELAY DRIVERS (LD2.3)			
DRAWN	C. Dwyer	12-16-79	SIZE
CHECK			13442-001
APPD			REV P
SCALE:		SHEET 12 OF	





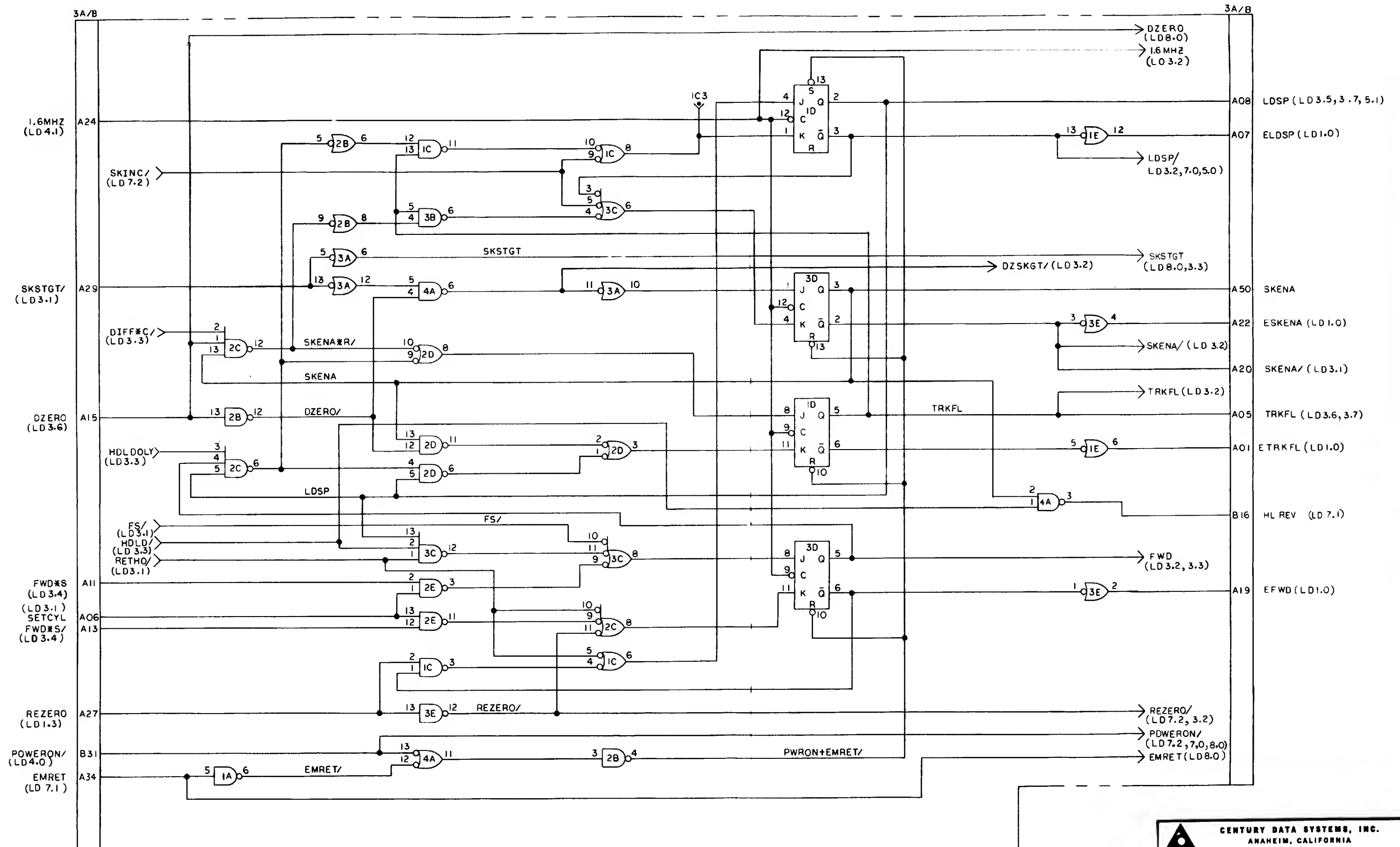

CENTURY DATA SYSTEMS, INC.
 ANAHEIM, CALIFORNIA

SPEED DETECTION (LD2.5)

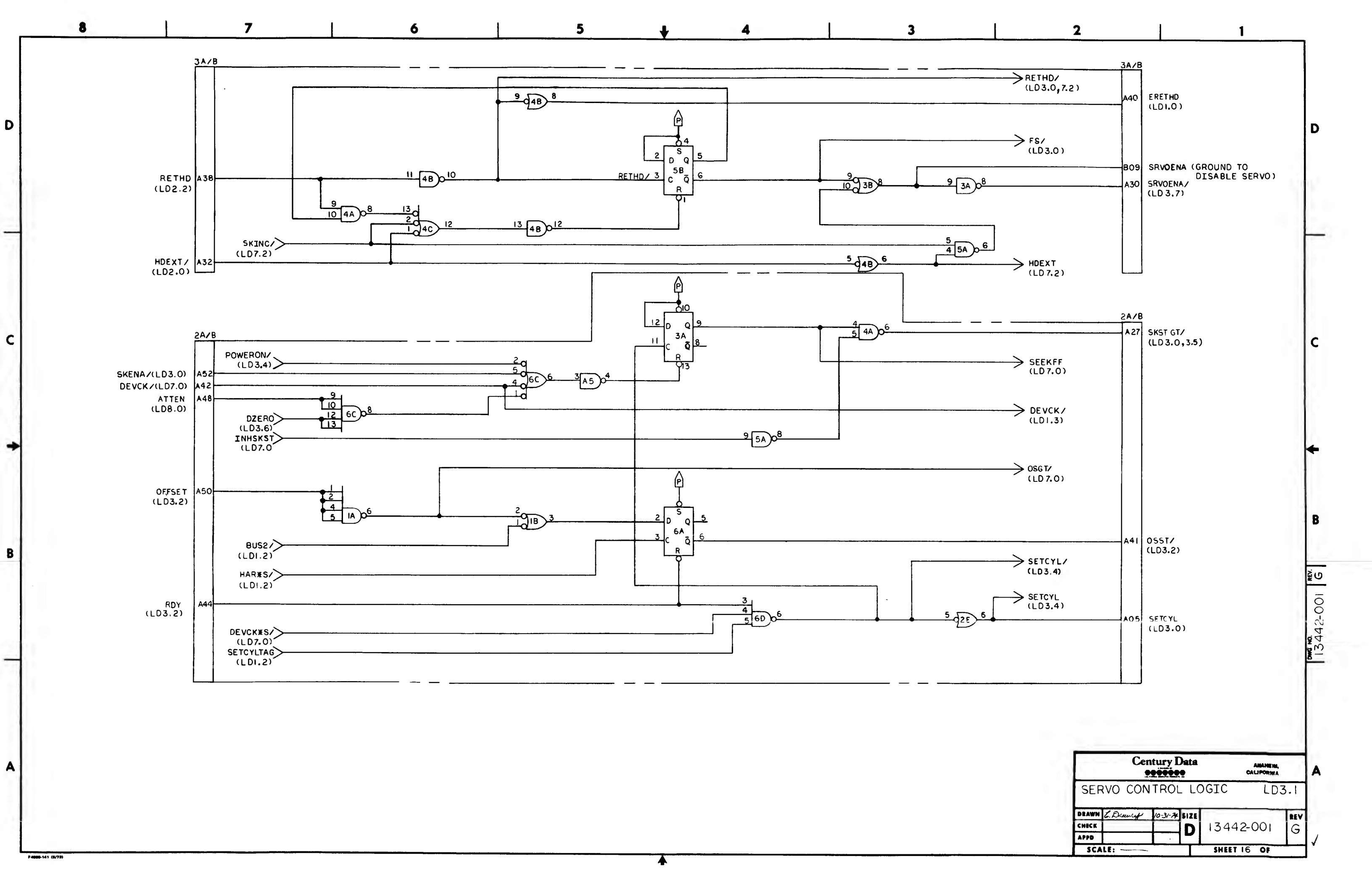
DRAWN	C. R. Ramey	11-12-79	SIZE	D	13442-001	REV	V
CHECK							
APPD							

SCALE: ———
SHEET 14 OF —

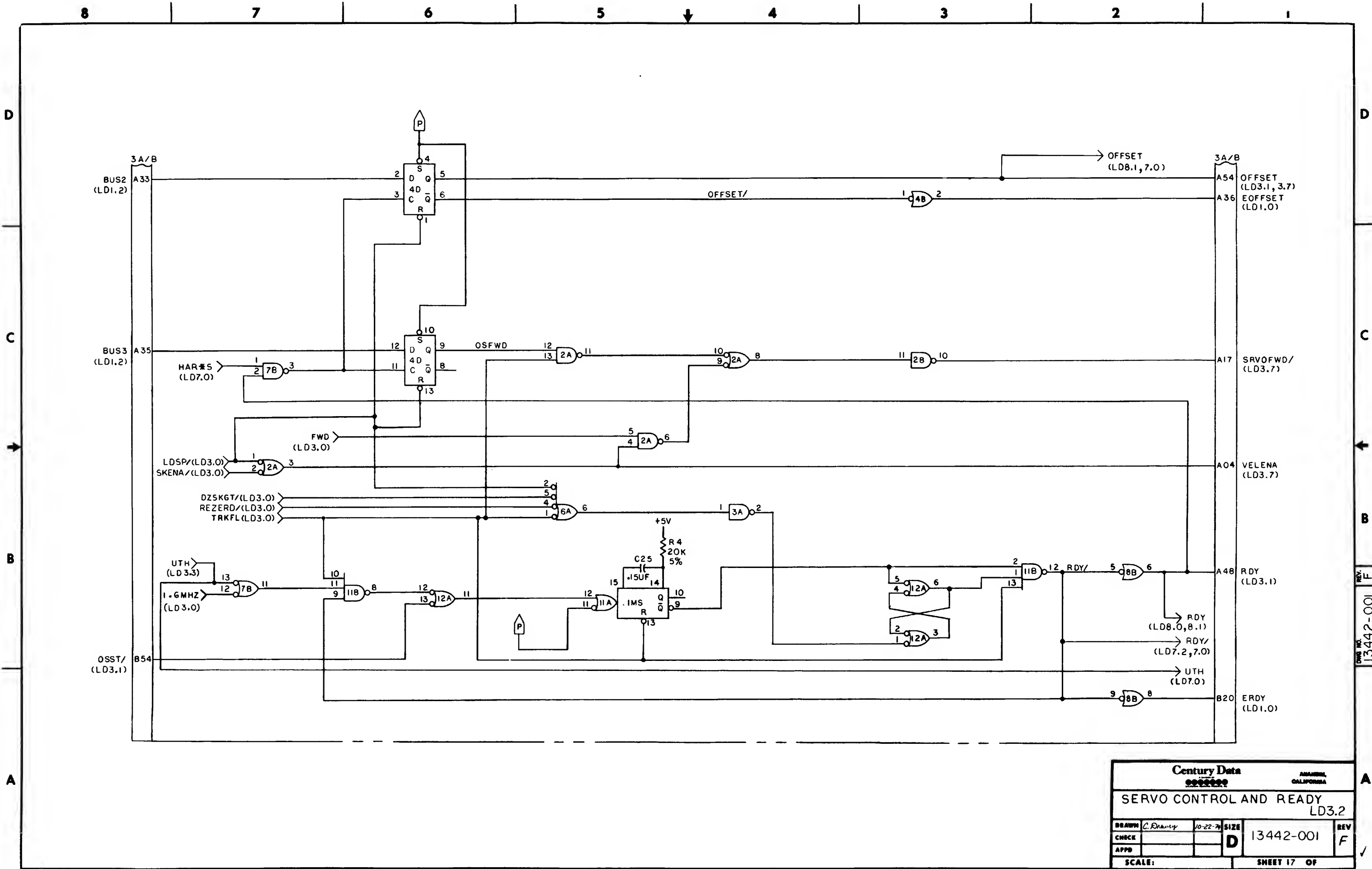
DWG NO. 13442-001 REV V

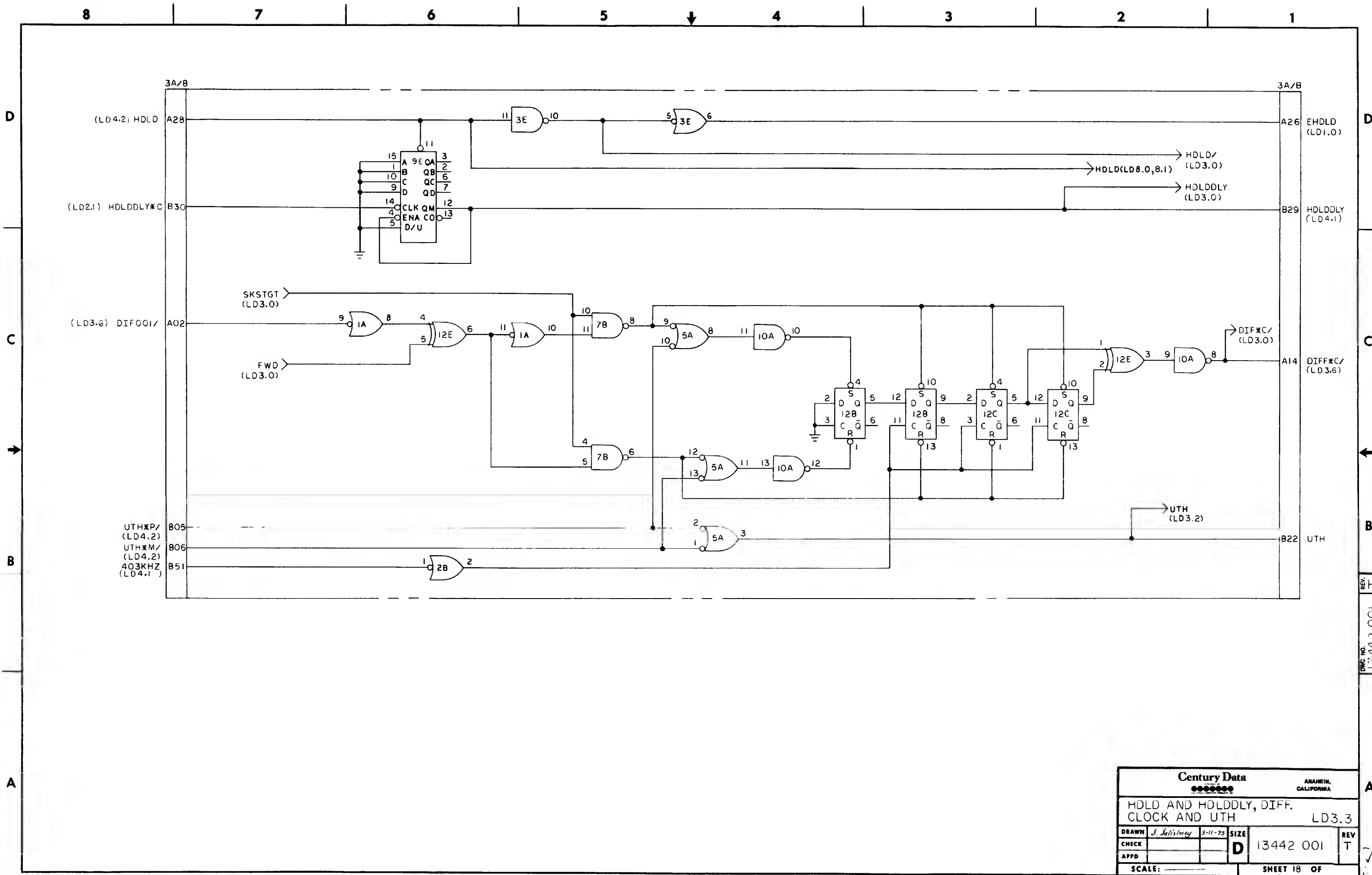


CENTURY DATA SYSTEMS, INC. ANAHEIM, CALIFORNIA			
SERVO CONTROL LD3.0			
DRAWN	J. Salisbury	SIZE	D
CHECK		13442-001	REV T
APPD		SHEET 15 OF	



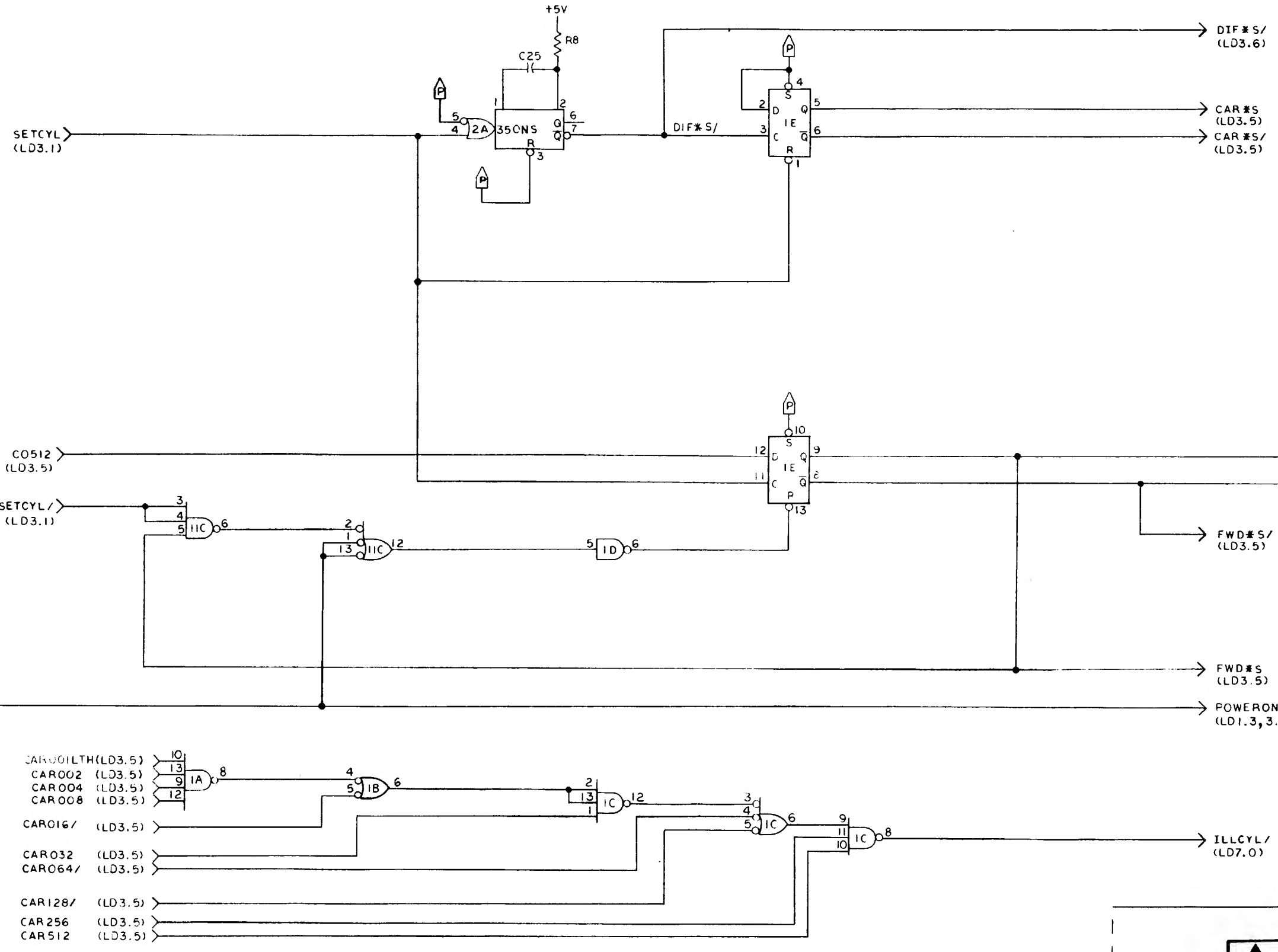
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SERVO CONTROL LOGIC		LD3.1	
DRAWN	L. Deary	10-31-74	SIZE D
CHECK			13442-001
APPD			REV G
SCALE:		SHEET 16 OF	





2 A/B

2 A/B



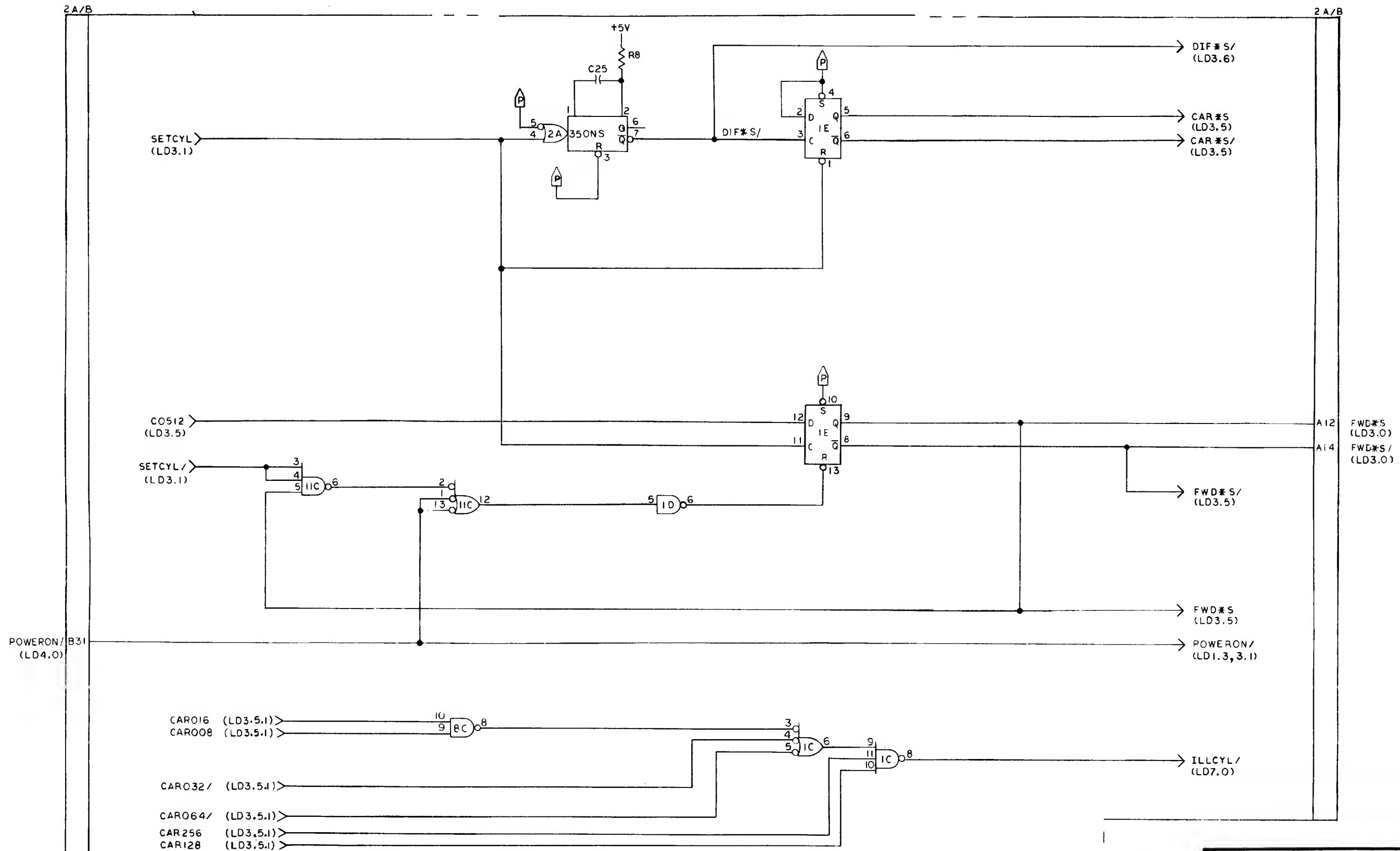
CENTURY DATA SYSTEMS, INC.
ANAHEIM, CALIFORNIA

SUBTRACTOR CONTROL AND
ILLCYL LOGIC-T50,T80 LD3.4.0

DRAWN	CHECK	APPD	SIZE	REV
			D	F

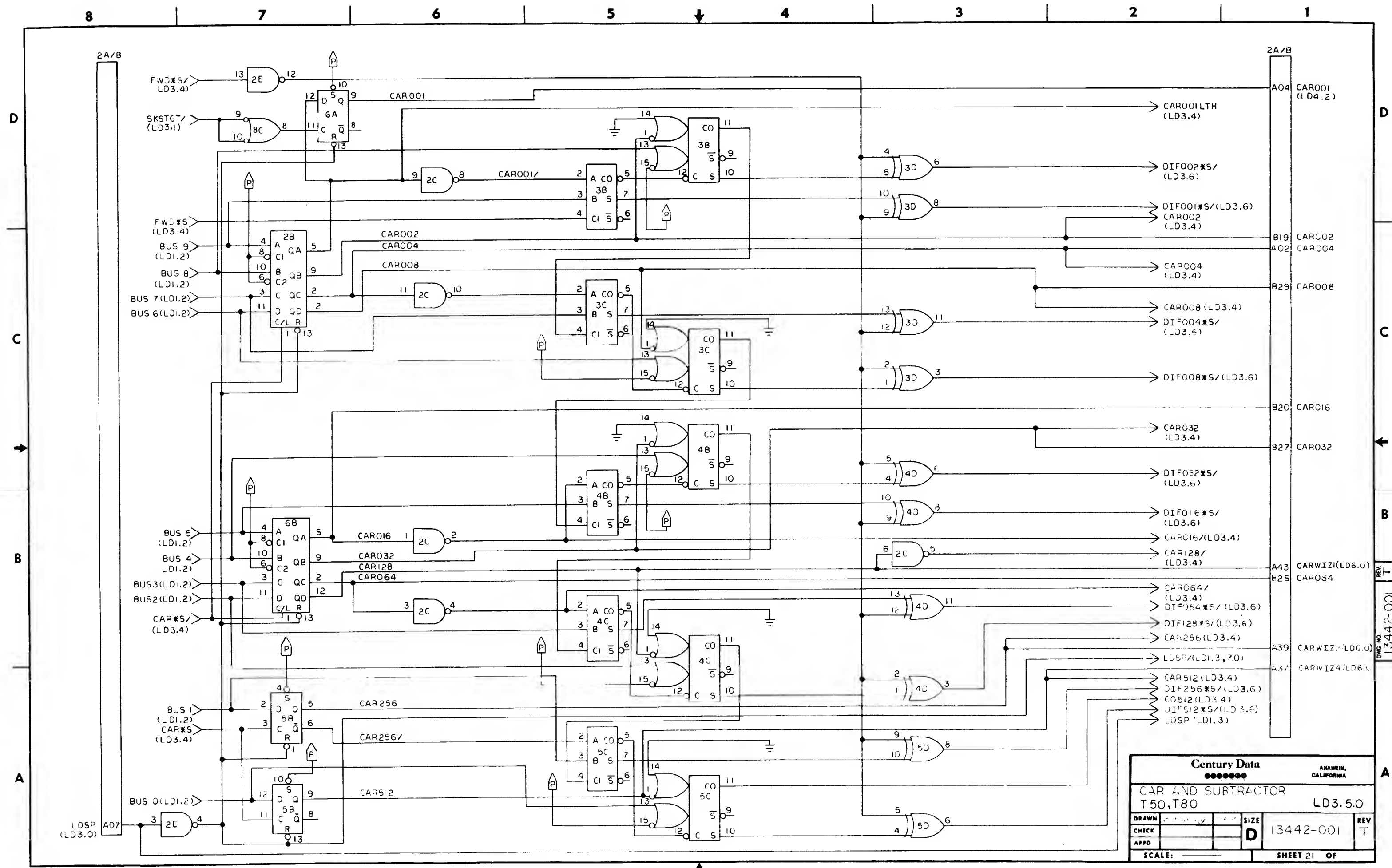
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F 13442-001

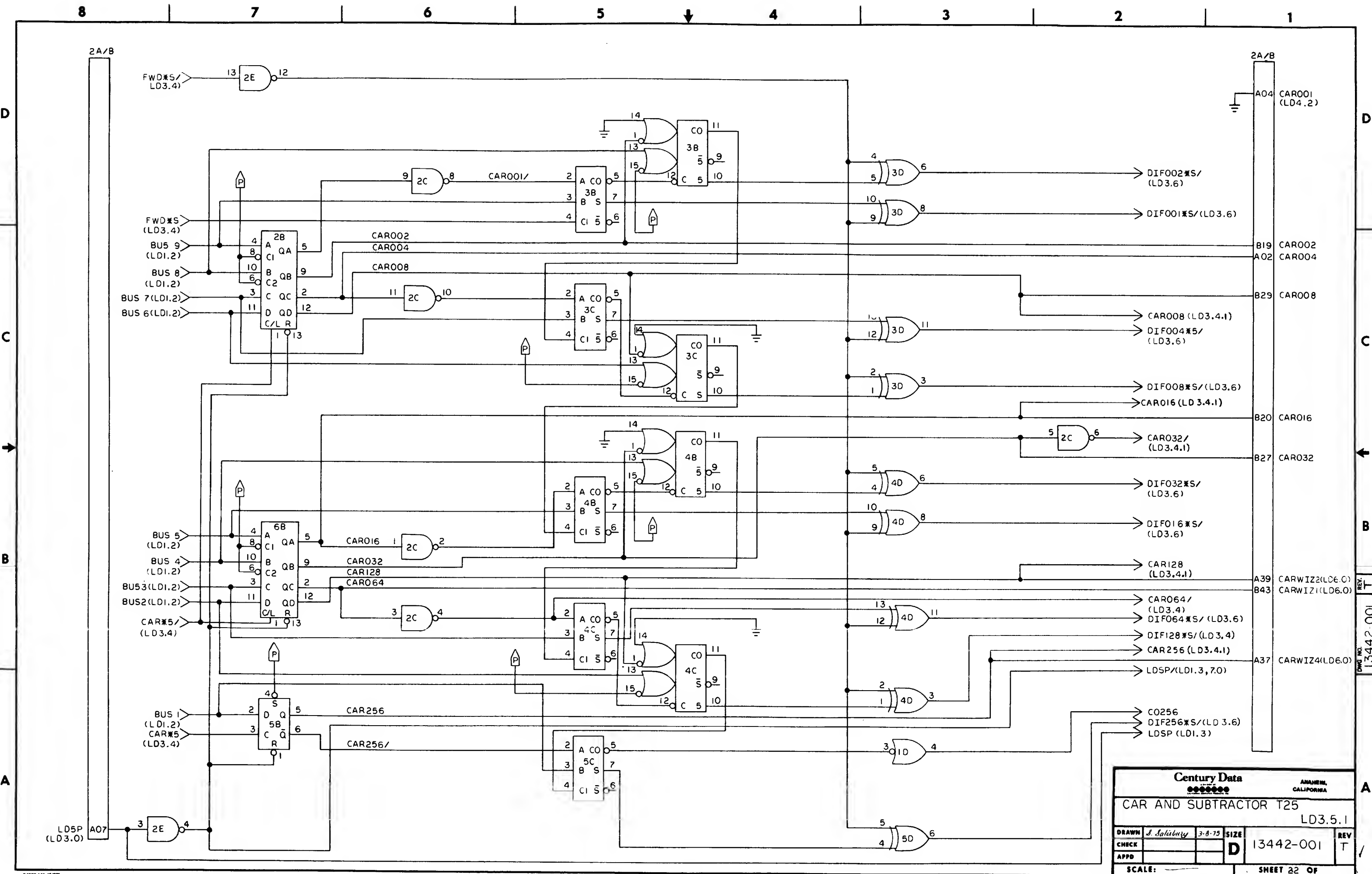


CENTURY DATA SYSTEMS, INC. ANAHEIM, CALIFORNIA			
SUBTRACTOR CONTROL AND ILLCYL LOGIC T25 LD3.4.1			
DRAWN	C. Dewey	SIZE	REV
CHECK		13442-001	F
APPD			
SCALE:		SHEET 20 OF	

F 13442-001



Century Data		ANAHEIM, CALIFORNIA	
CAR AND SUBTRACTOR			
T50, T80		LD3.5.0	
DRAWN	CHECK	SIZE	REV
APD		D	T
SCALE:		SHEET 21 OF	

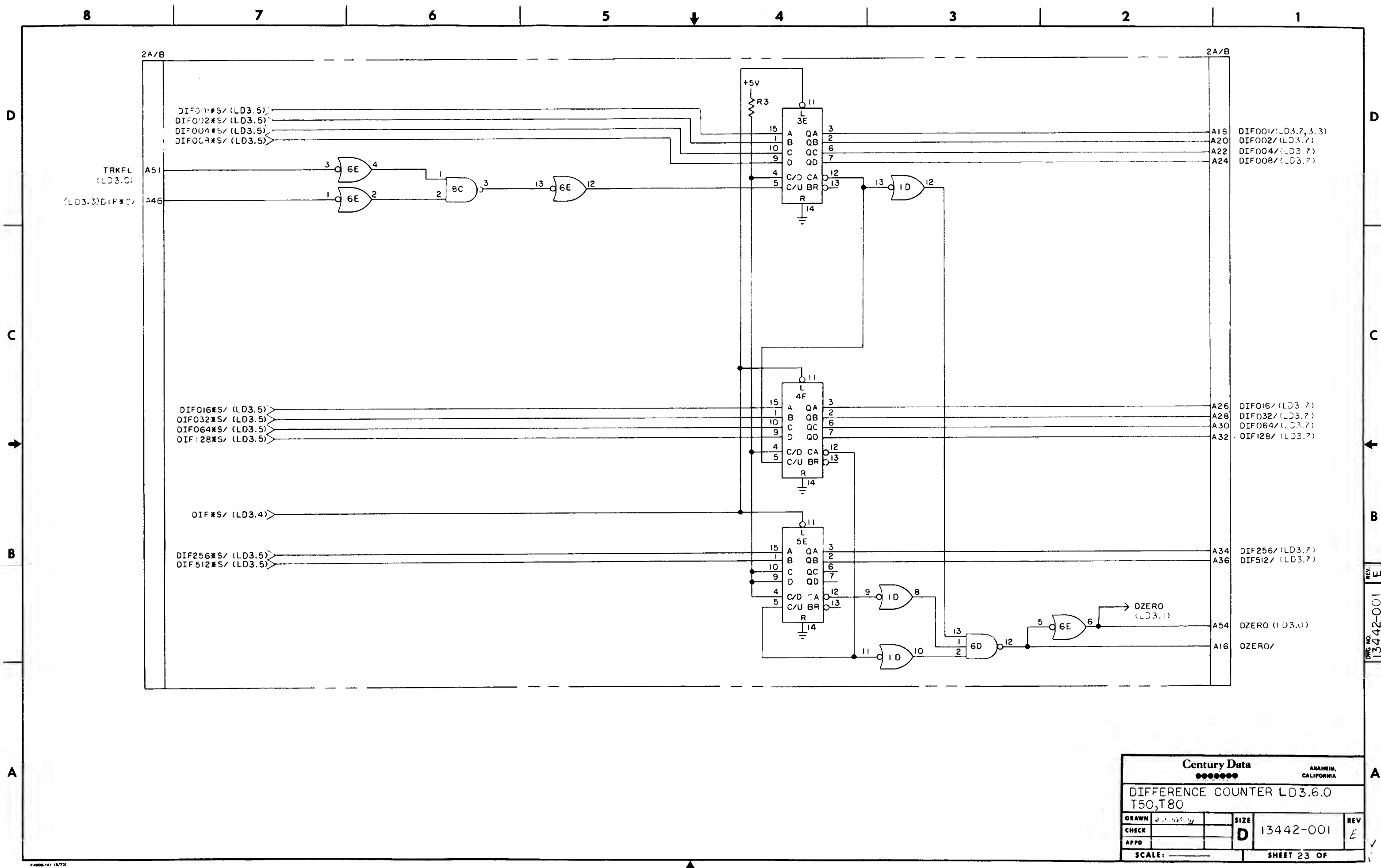


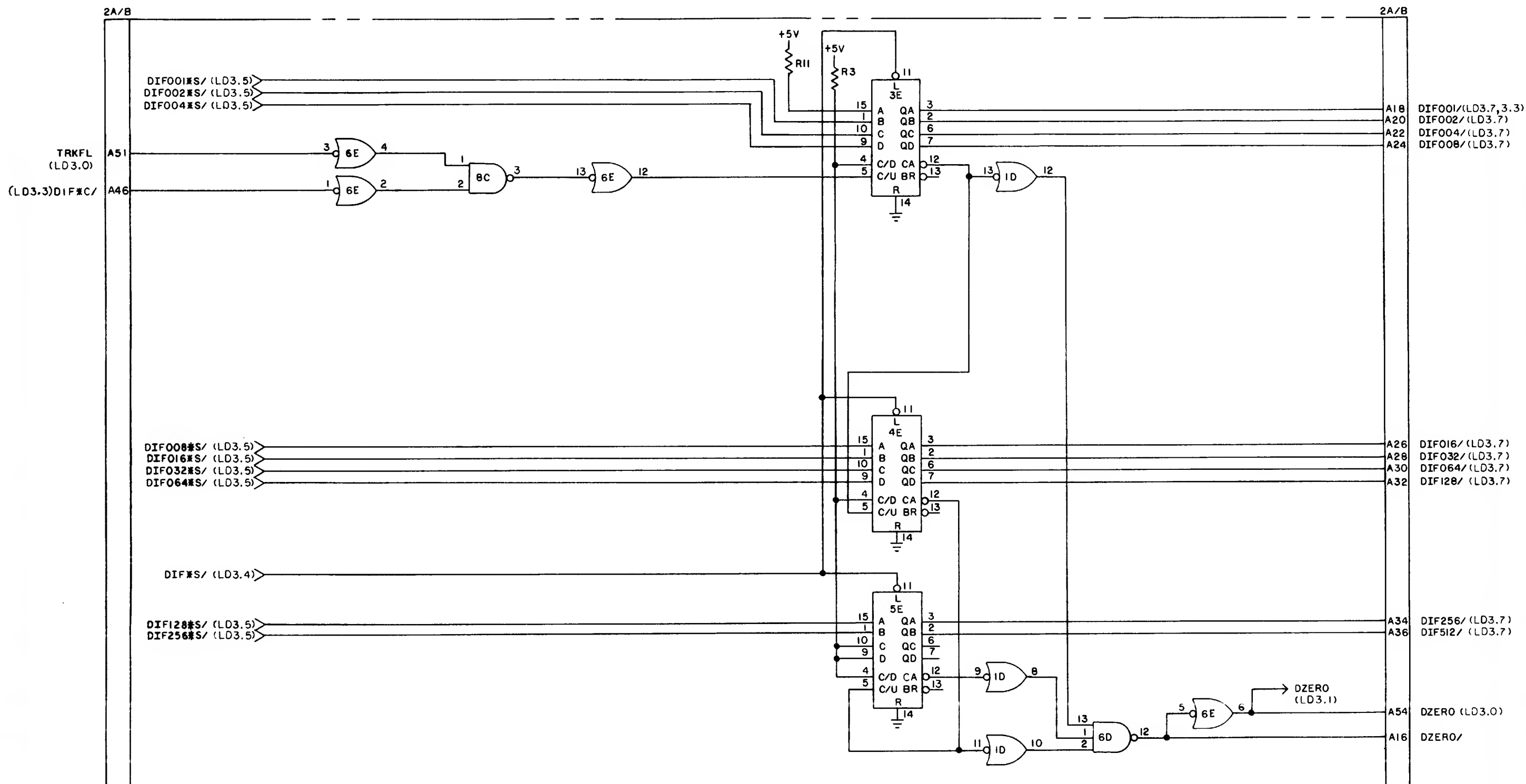
Century Data
ANALOG, CALIFORNIA

CAR AND SUBTRACTOR T25
LD3.5.1

DRAWN	J. Salas	3-8-75	SIZE	D	REV	T
CHECK						
APPD						

SCALE: SHEET 22 OF





Century Data		ANAHEIM, CALIFORNIA	
DIFFERENCE COUNTER			
T25 (LD3.6.1)			
DRAWN	J. Antikary	SIZE	D
CHECK		REV	C
APPD		13442-001	
SCALE: _____		SHEET 24 OF	

D

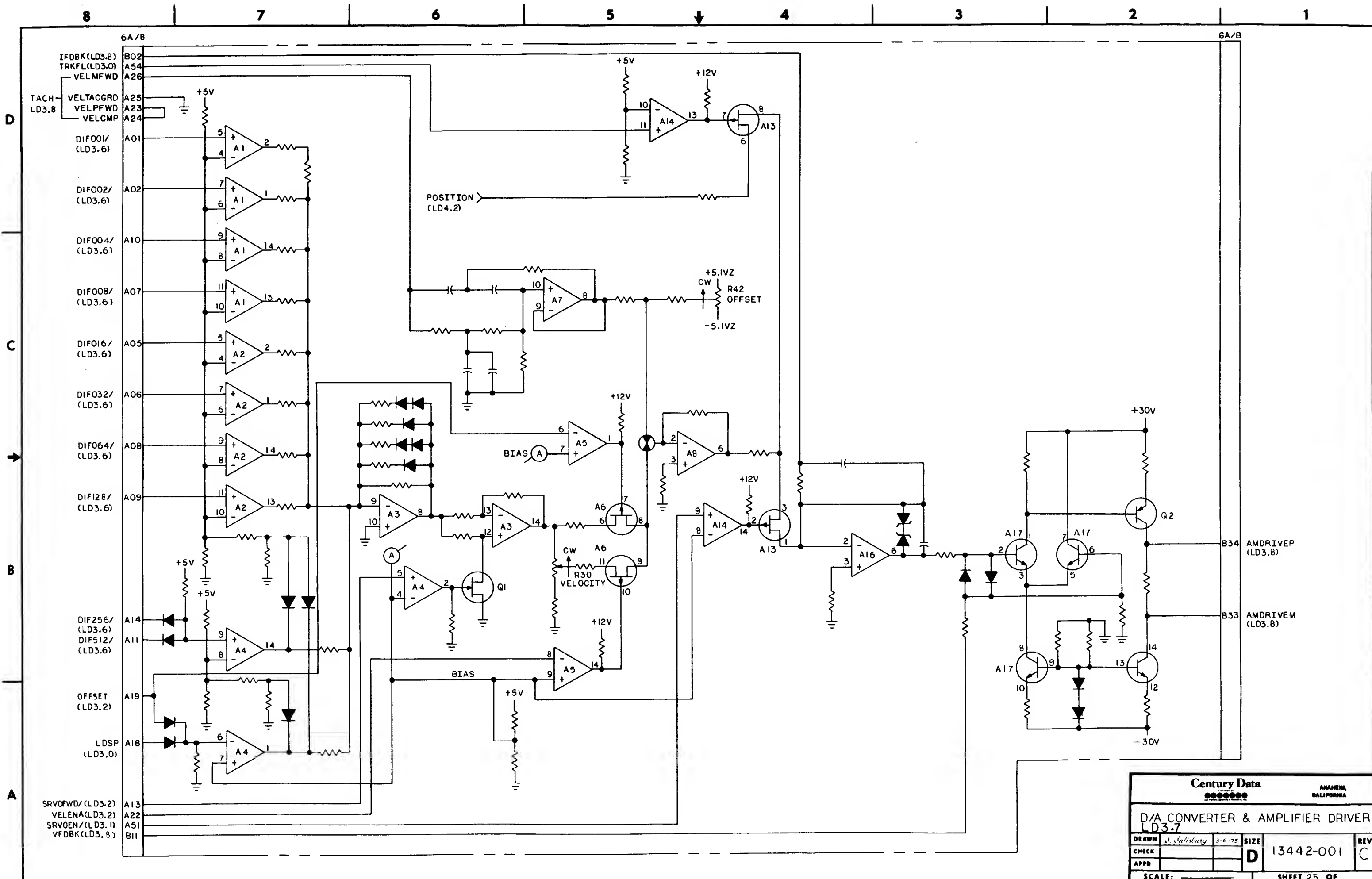
C

B

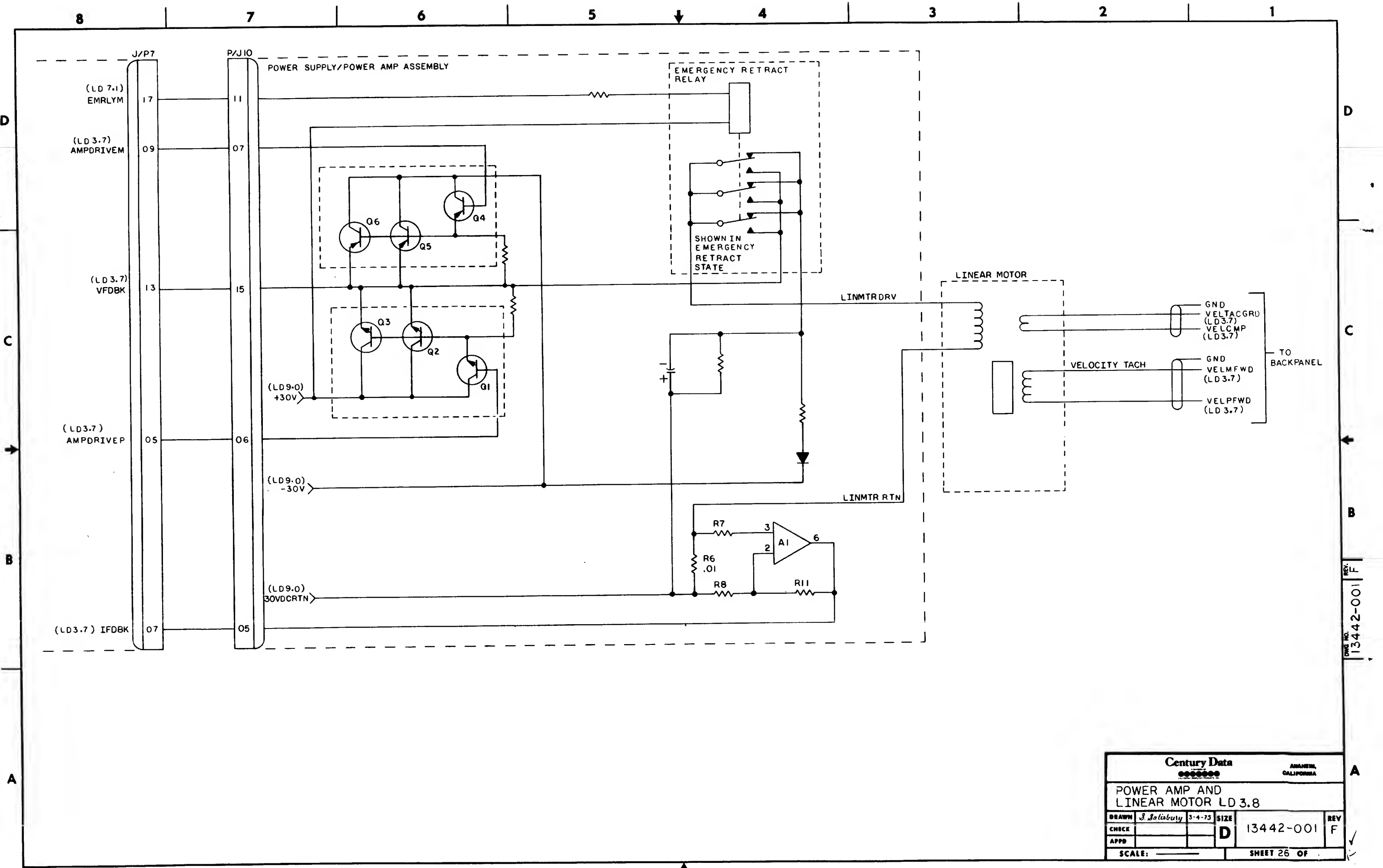
REV


13442-001

A



Century Data		ANAHEIM, CALIFORNIA	
D/A CONVERTER & AMPLIFIER DRIVER			
LD3.7			
DRAWN	J. Salisbury	3-6-75	SIZE
CHECK			D
APPD			
SCALE:		SHEET 25 OF	



Century Data 				ANAHEIM, CALIFORNIA	
POWER AMP AND LINEAR MOTOR LD 3.8					
DRAWN	<i>J. Salisbury</i>	3-4-75	SIZE	13442-001	REV
CHECK			D		F
APPD					
SCALE: _____			SHEET 26 OF _____		

8

7

6

5

4

3

2

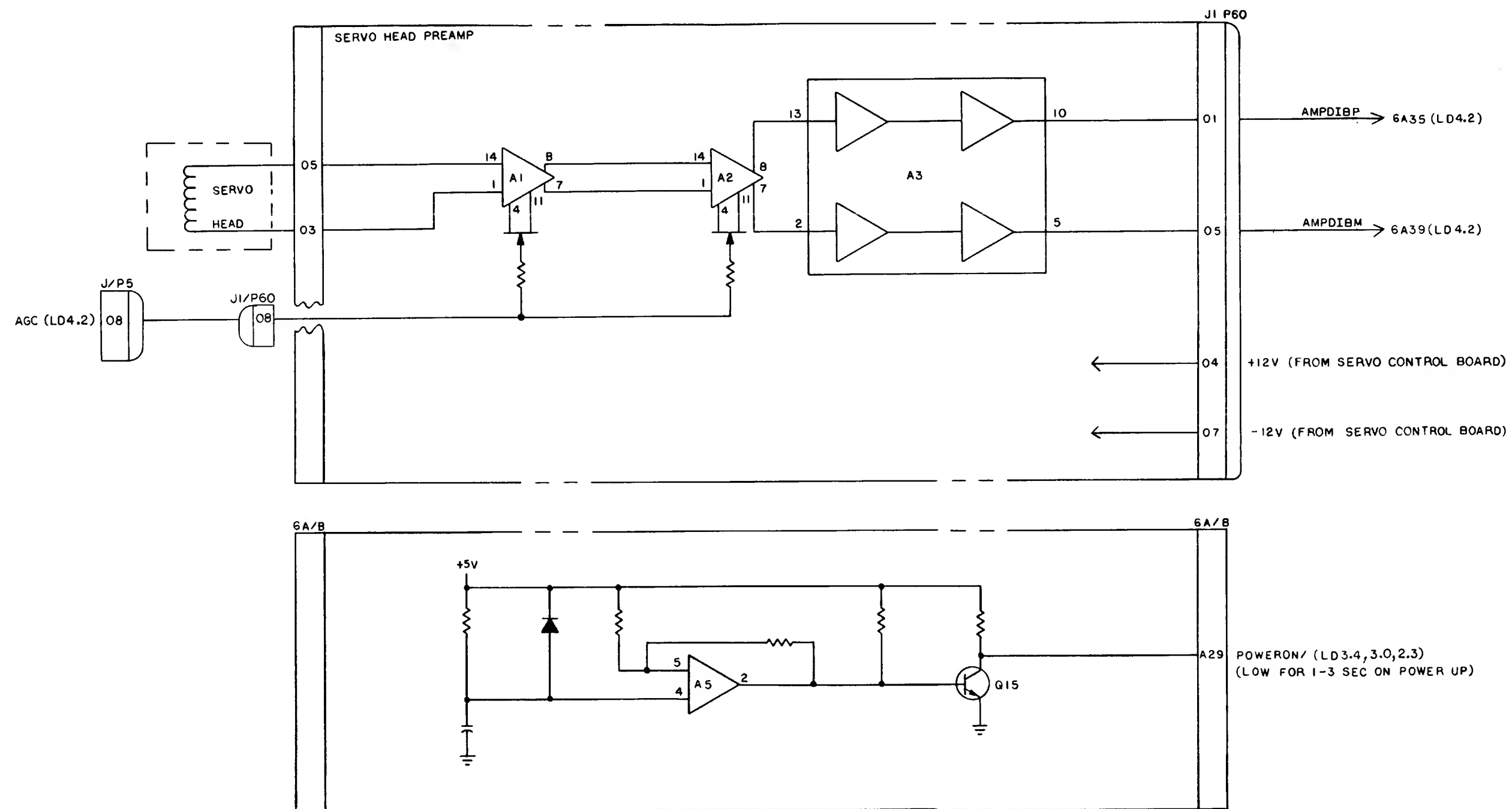
1

D

C

B

A



D

C

B

A

REV. T
13442-001
Dwg. No.

Century Data

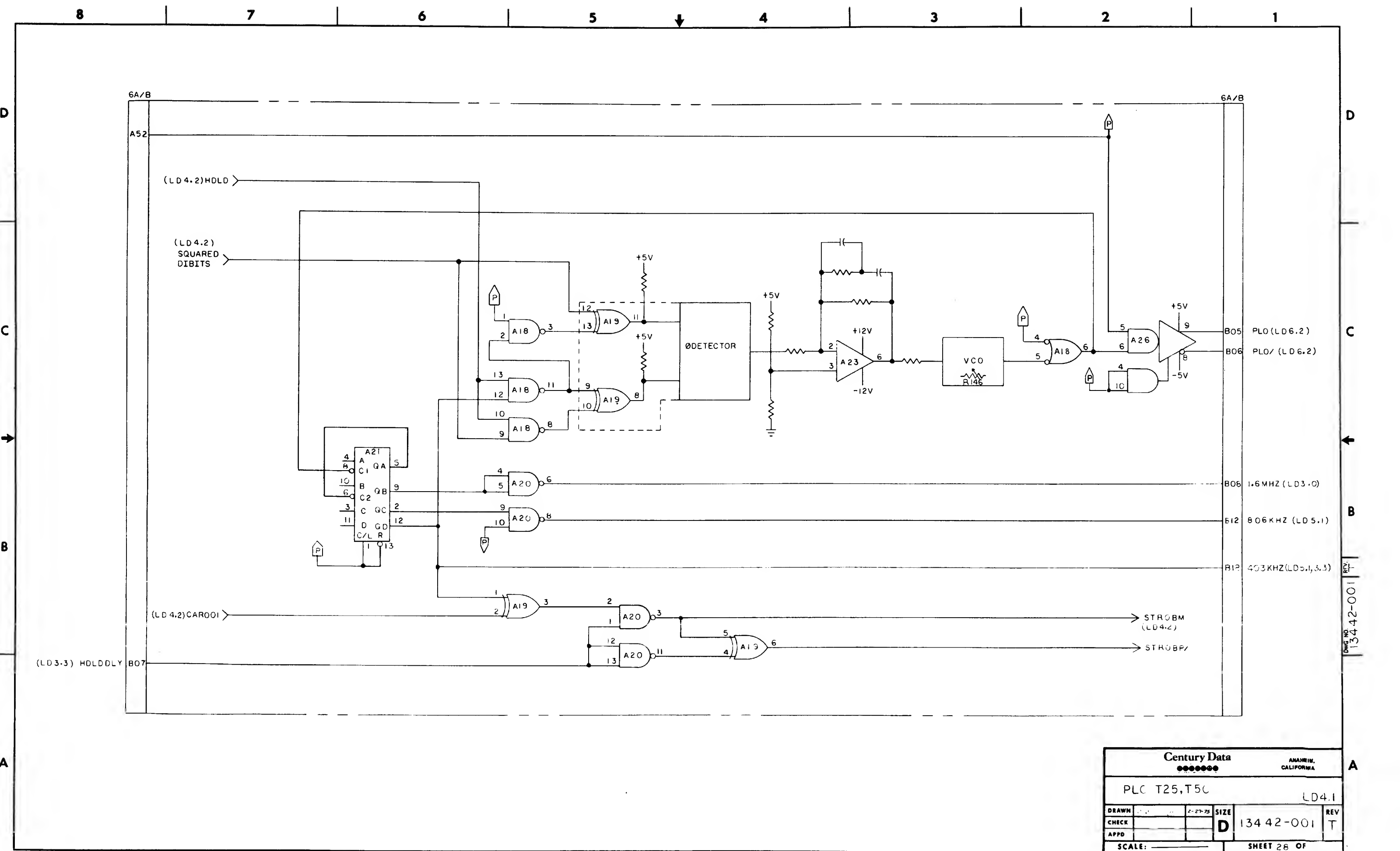
ANAHEIM,
CALIFORNIASERVO HEAD PREAMP AND
POWER ON/ LD 4.0DRAWN S. Salisbury
CHECK
APPD3-10-75
SIZE
D

13442-001

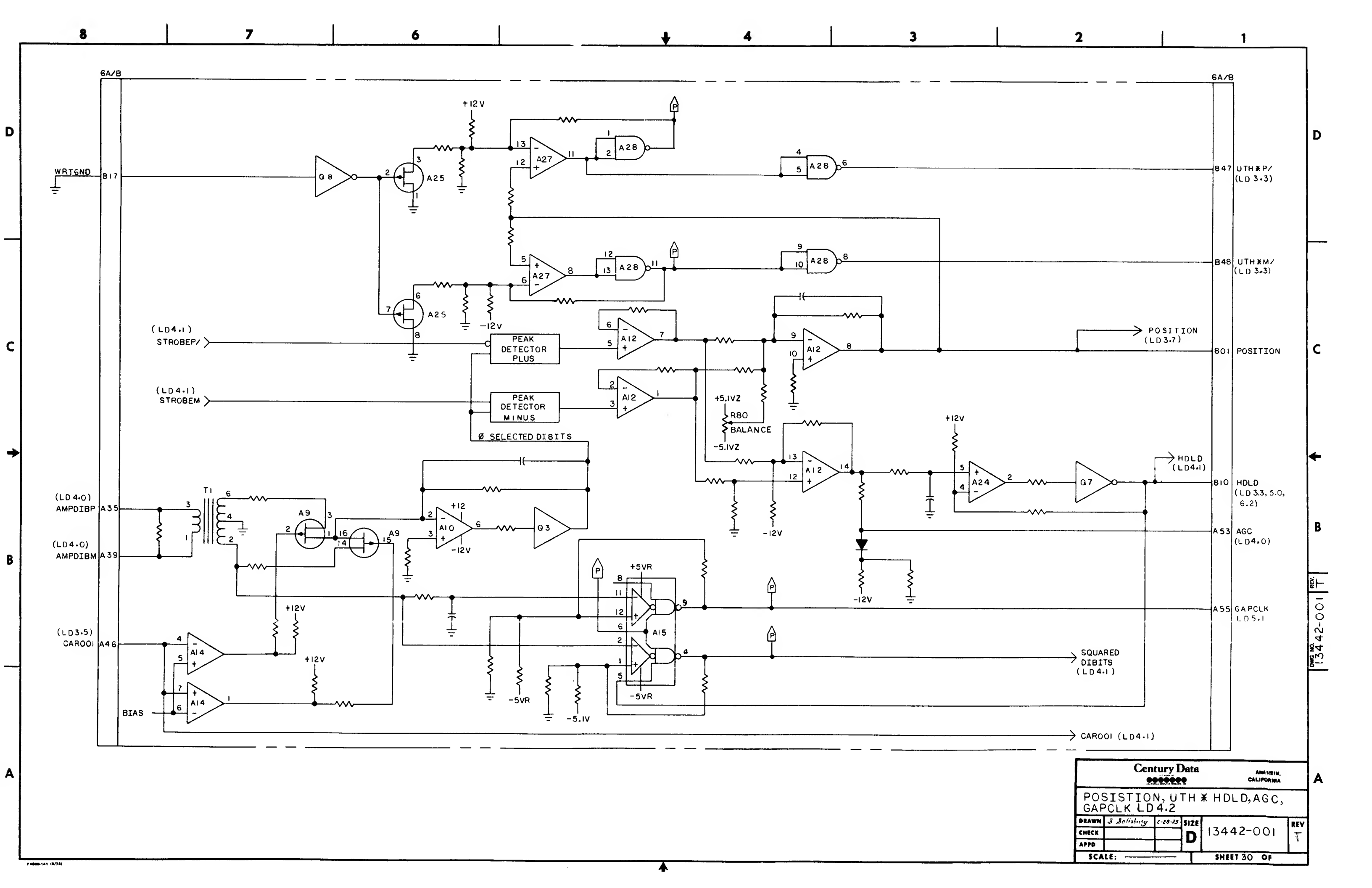
REV
T

SCALE:

SHEET 27 OF



Century Data				ANAHEIM, CALIFORNIA	
PLC T25, T5C				LD4.1	
DRAWN	2-27-75	SIZE	D	134 42-001	REV T
CHECK					
APPD					
SCALE:				SHEET 28 OF	



(LD 4.1) 806KHZ

5A/B

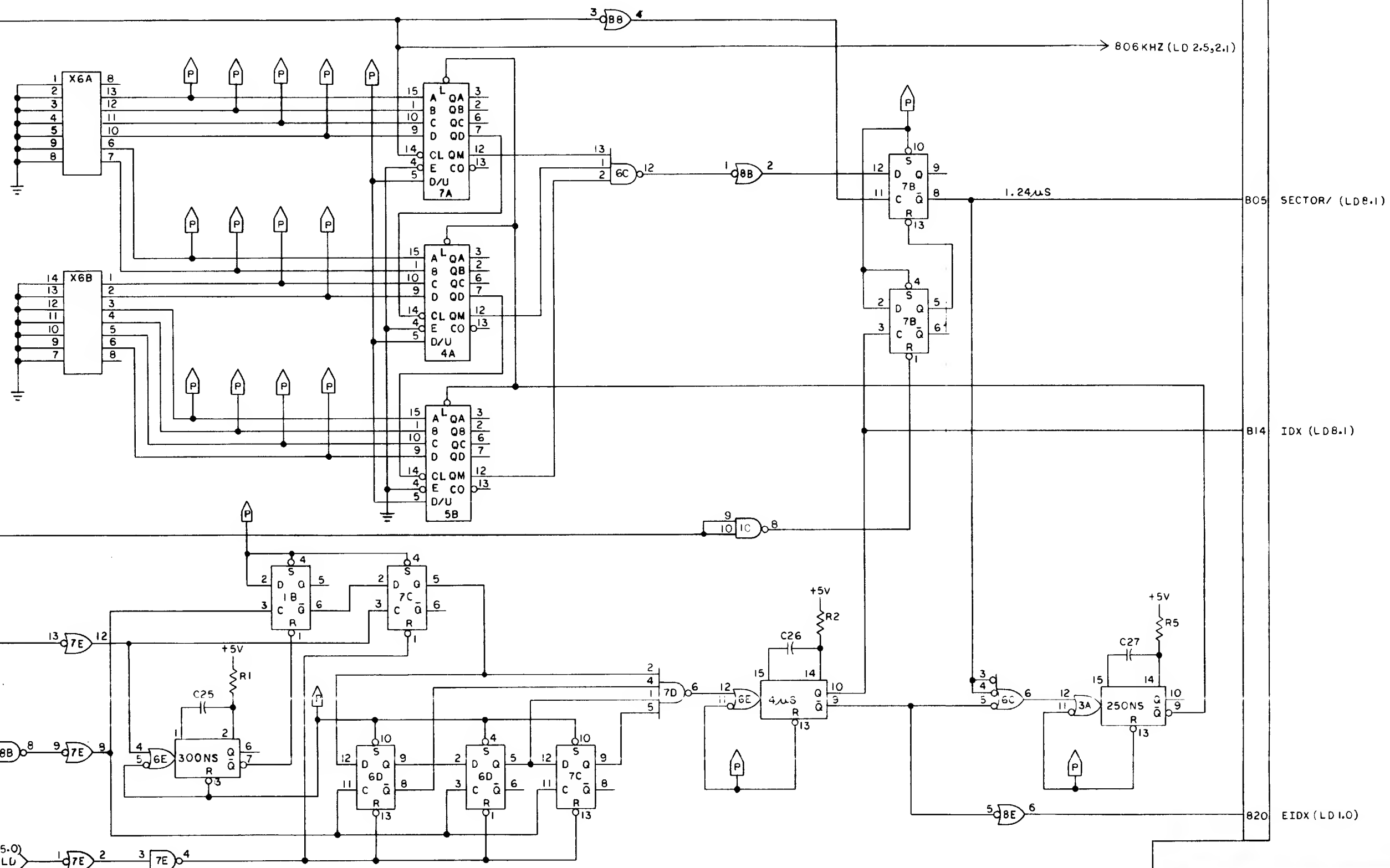
5A/B

(LD 3.0) LDSP

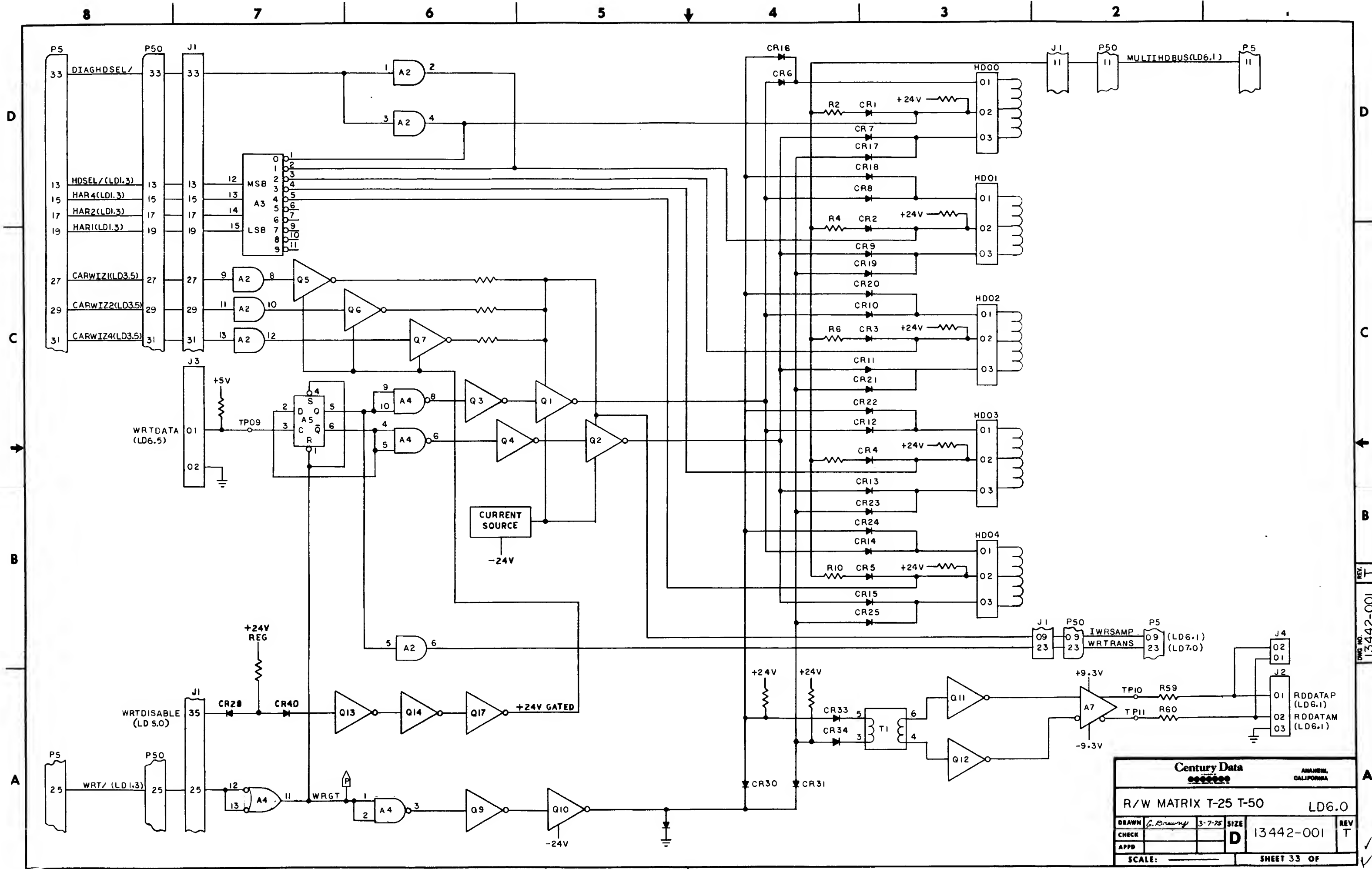
(LD 4.1) 403KHZ

(LD 4.2) GAPCLK

(LD 5.0) HDLU



CENTURY DATA SYSTEMS, INC. ANAHEIM, CALIFORNIA			
INDEX AND SECTOR		LD 5.1	
DRAWN	J. Antisburg	SIZE	13442-001
CHECK		REV	C
APPD		SHEET 32 OF 1	



Century Data

ANALOG, CALIFORNIA

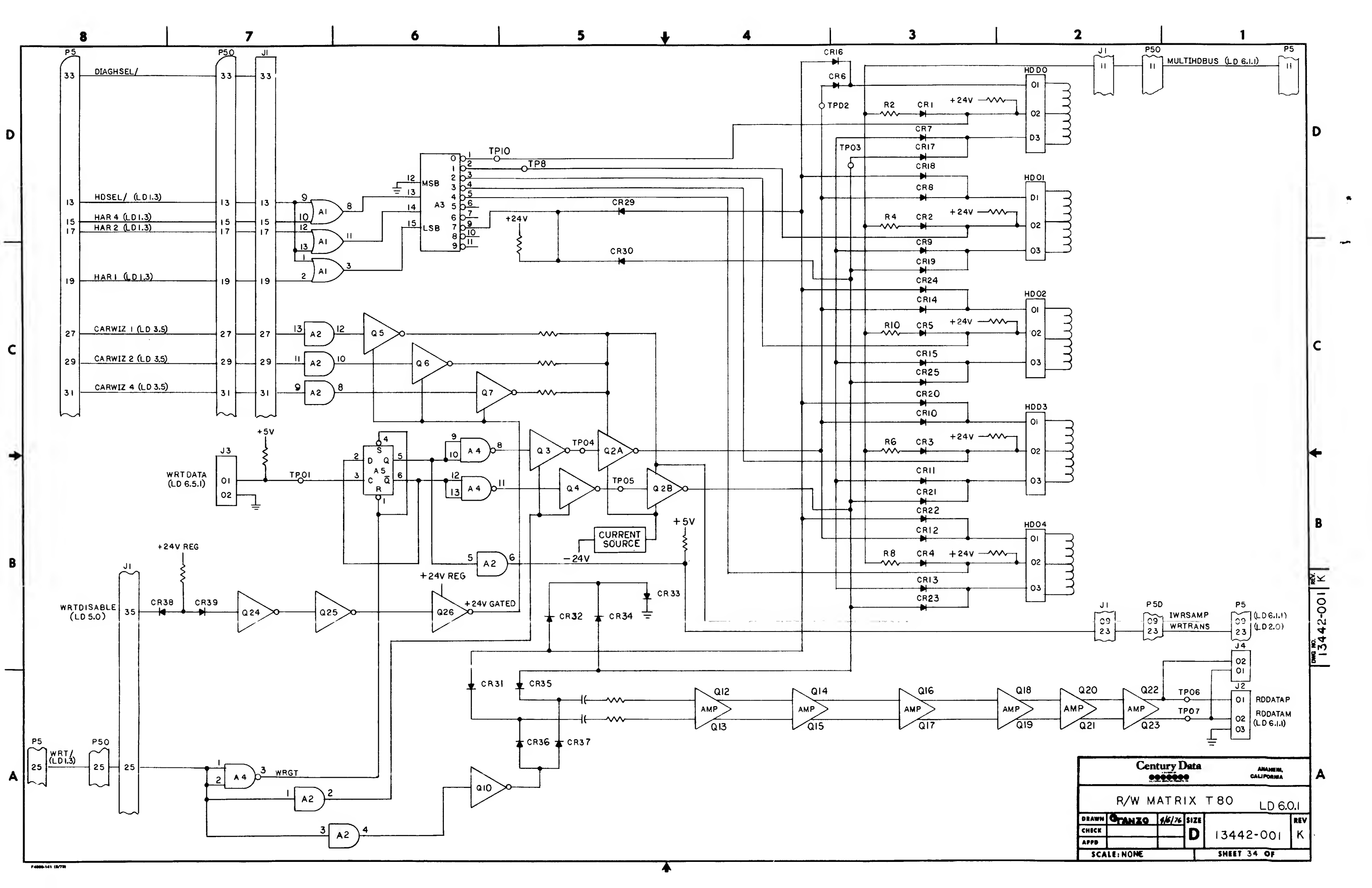
R/W MATRIX T-25 T-50

LD6.0

DRAWN	G. Brown	3-7-75	SIZE	D	13442-001	REV	T
CHECK							
APPD							

SCALE:

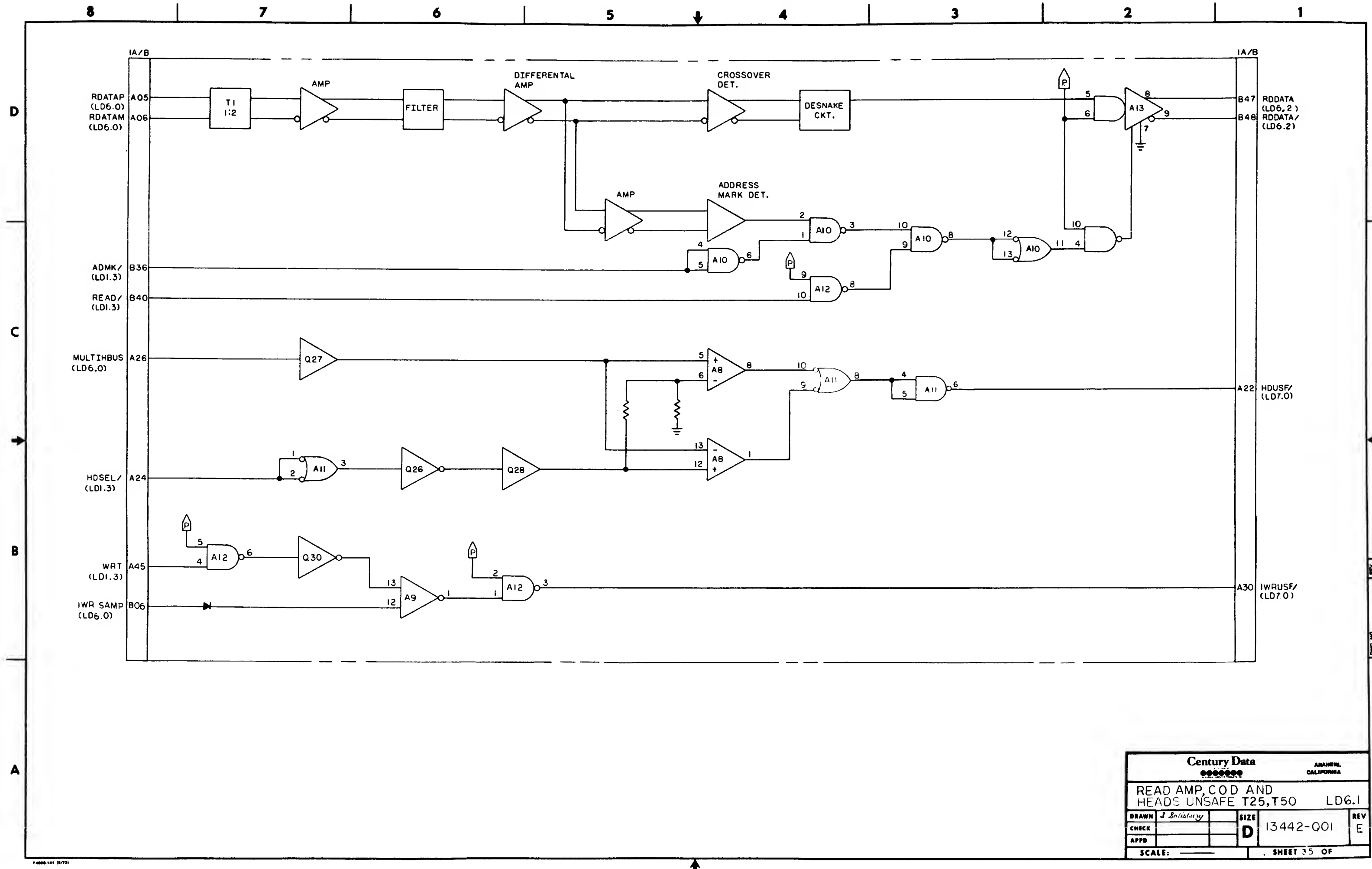
SHEET 33 OF

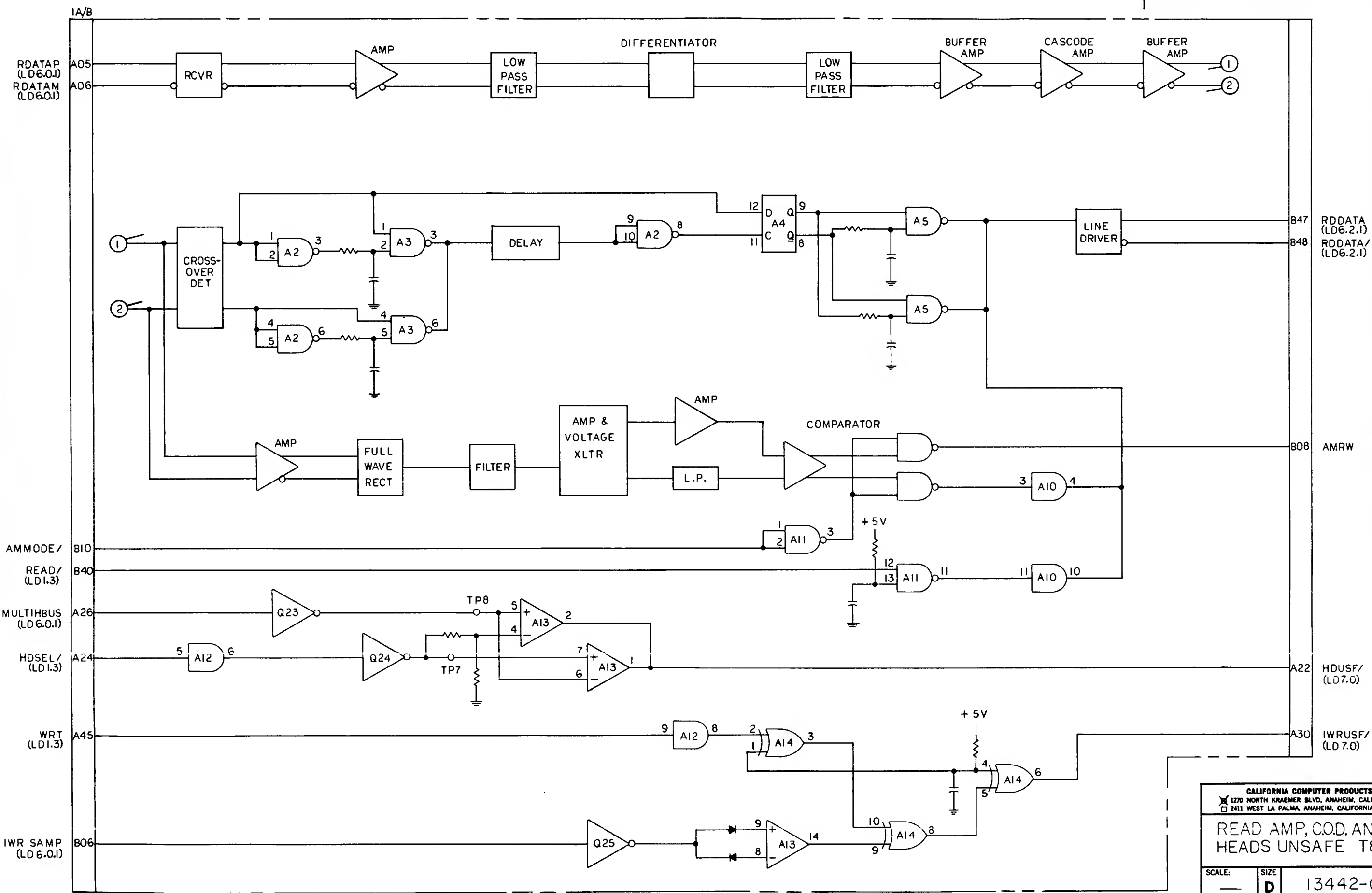


Century Data
ANALOG, CALIFORNIA

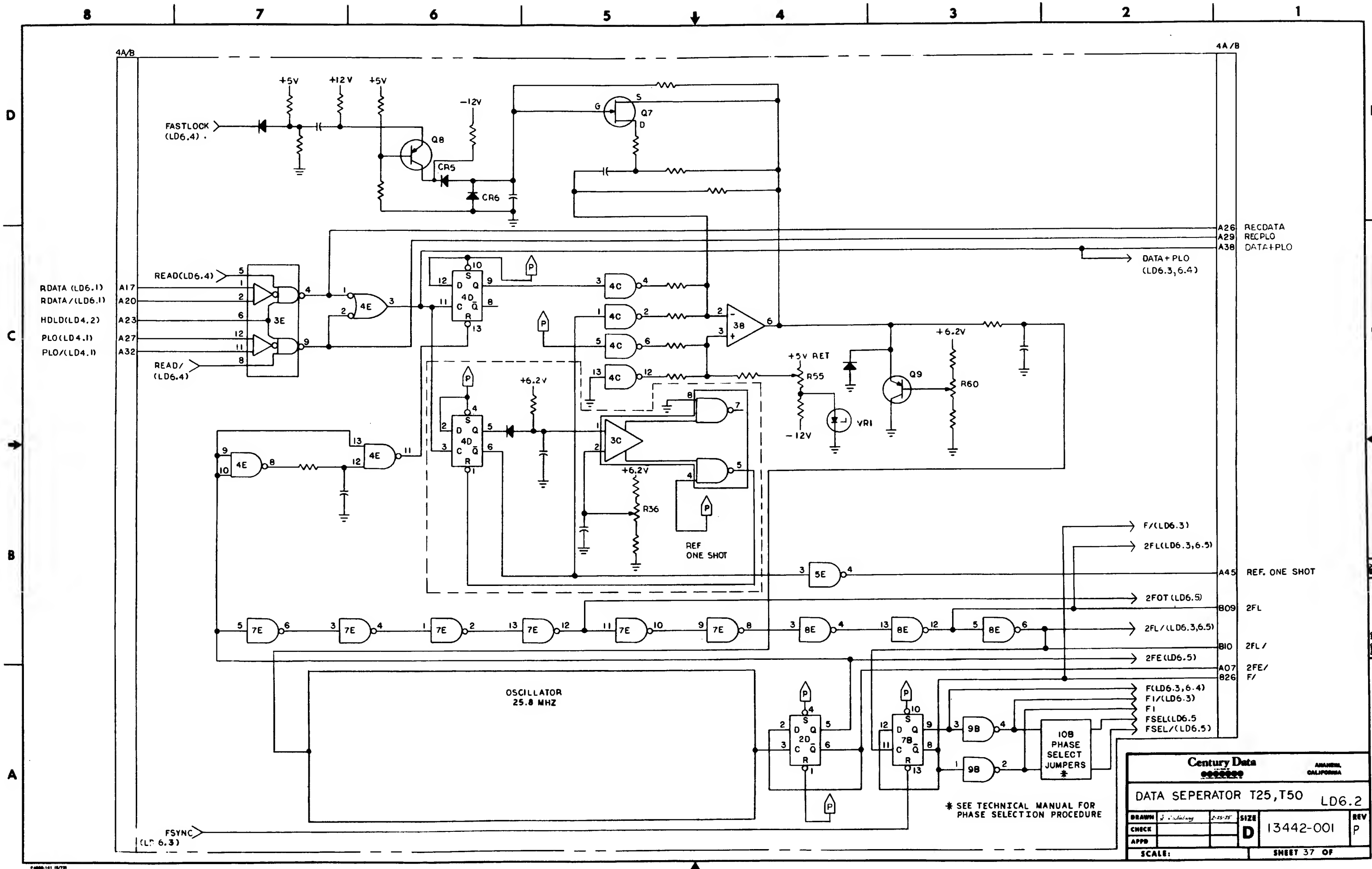
R/W MATRIX T80 LD 6.0.1

DRAWN	GRANZO	4/6/76	SIZE	D	13442-001	REV K
CHECK						
APPD						
SCALE: NONE					SHEET 34 OF	





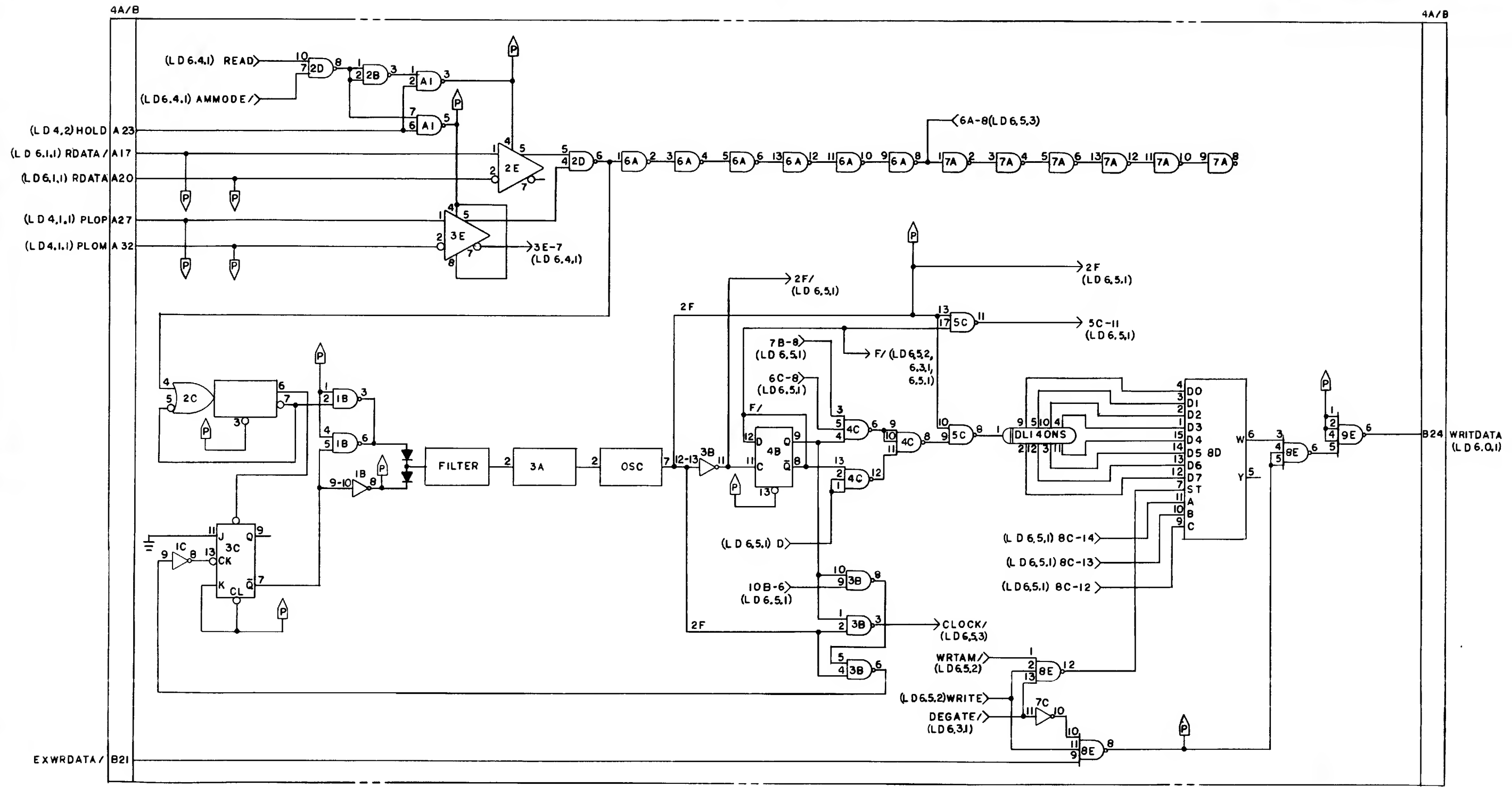
CALIFORNIA COMPUTER PRODUCTS INC. 1270 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92805 2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801			
READ AMP, C.O.D. AND HEADS UNSAFE T80 LD6.1.1			
SCALE:	SIZE	REV	
—	D	13442-001	K
SHEET 36 OF			



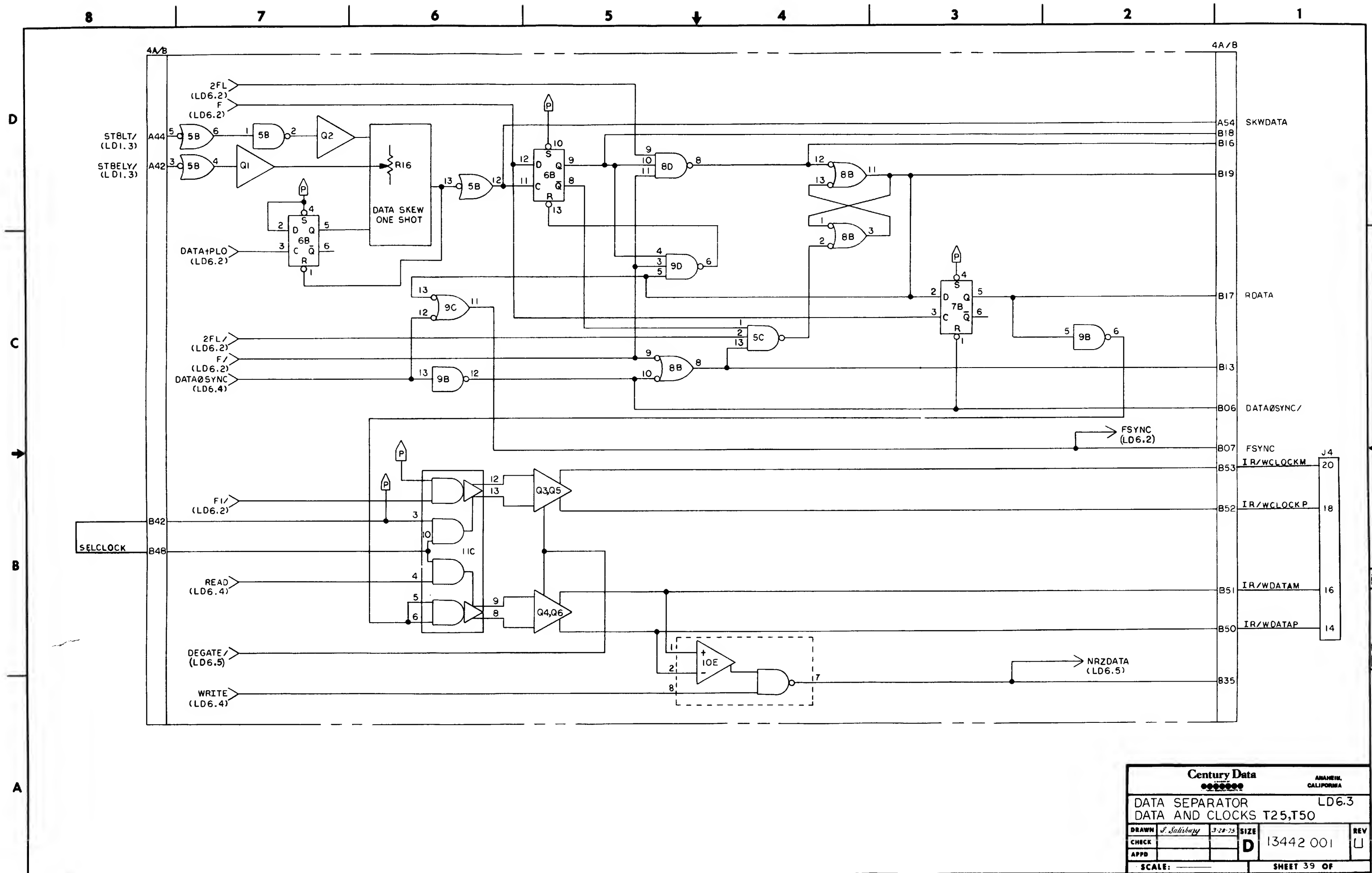
Century Data				ANALOG, CALIFORNIA	

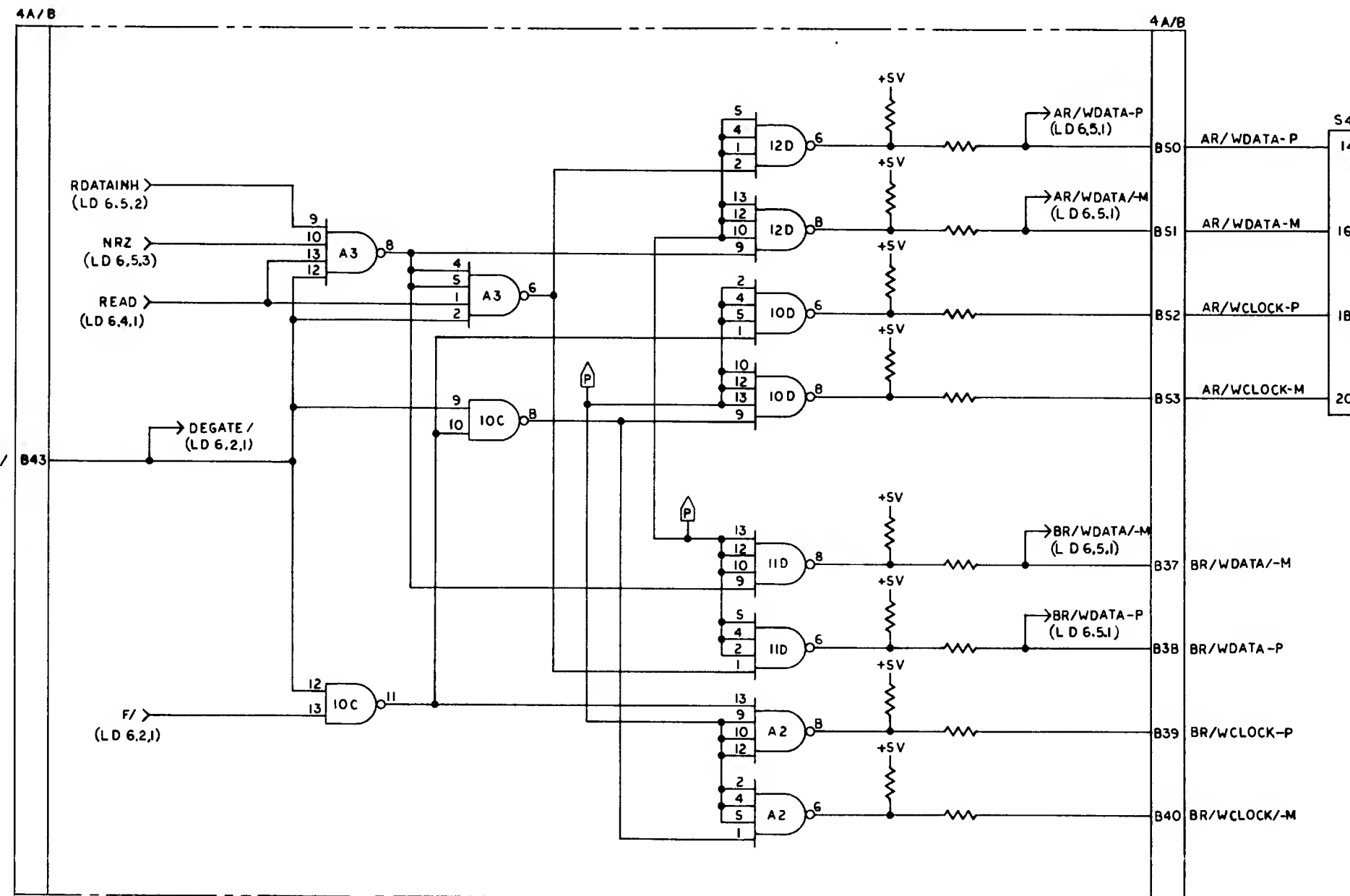
DATA SEPERATOR T25,T50 LD6.2					
DRAWN	J. J. J. J.	2-15-75	SIZE	13442-001	REV P
CHECK			D		
APPD					
SCALE:			SHEET 37 OF		

REVISIONS		
REV	ZONE	DESCRIPTION

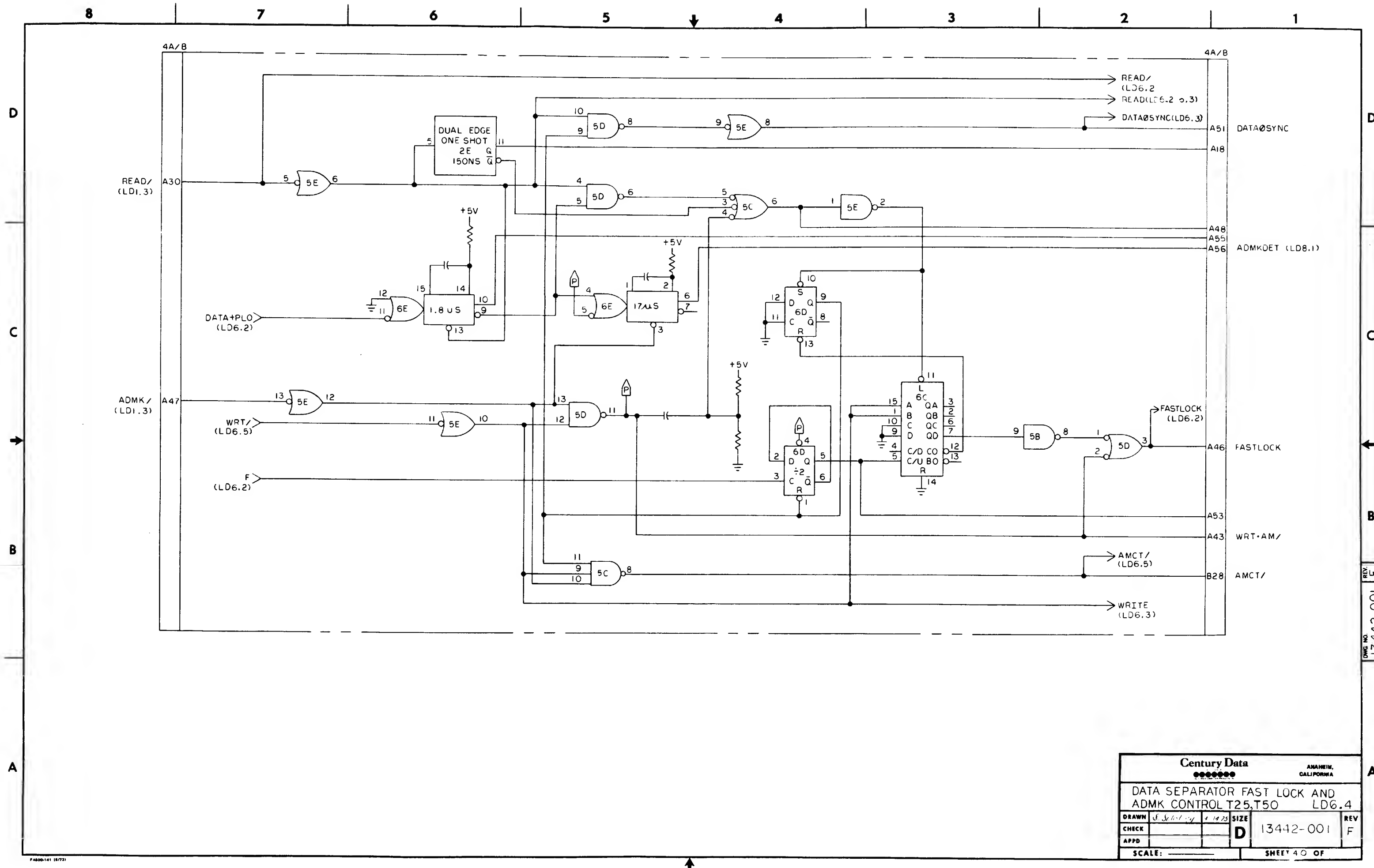


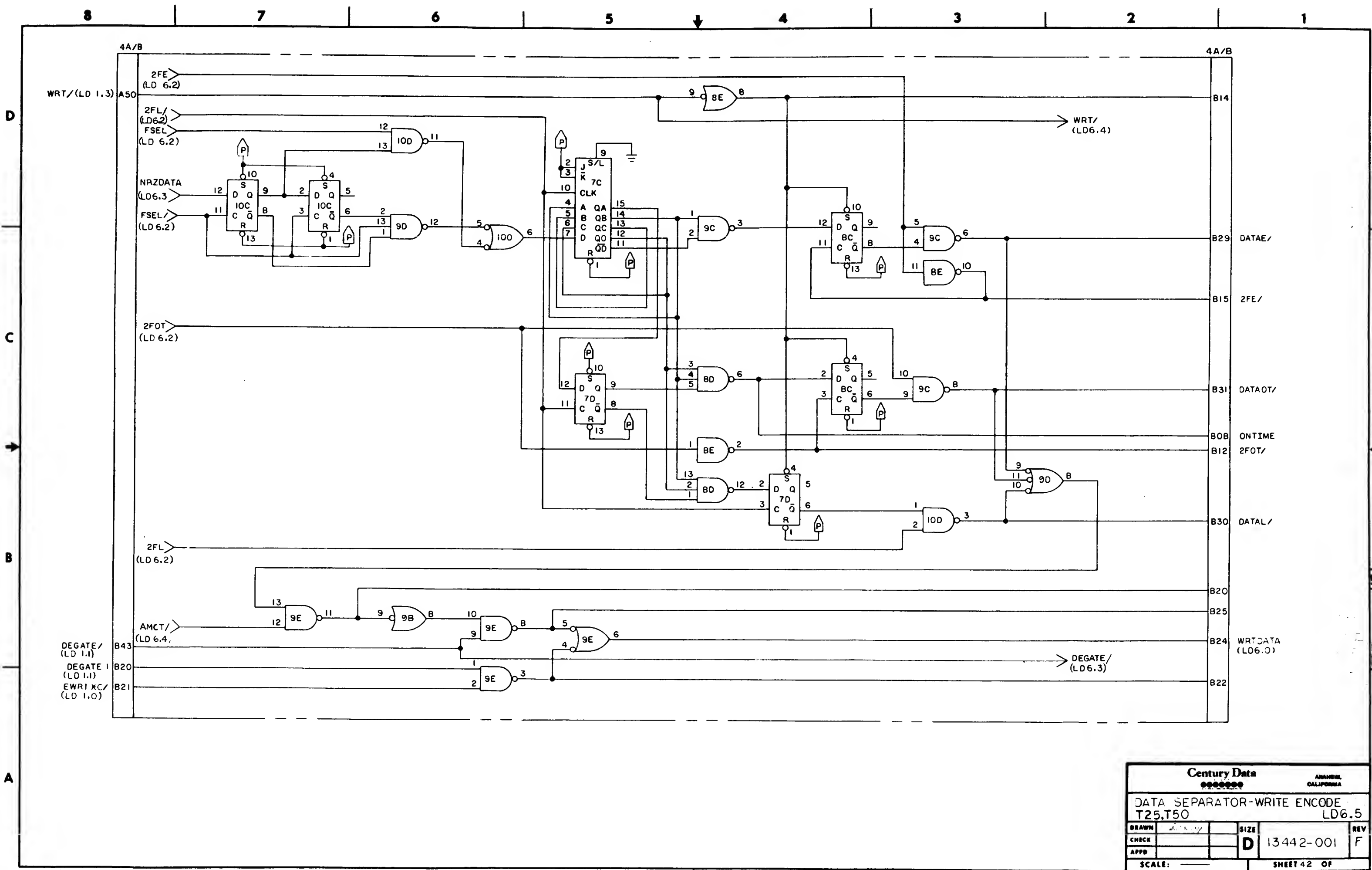
CALIFORNIA COMPUTER PRODUCTS INC. 1278 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92805 2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801	
DATA SEPARATOR T80 LD6.2.1	
SCALE: D	SIZE 13442-001
SHEET 38	



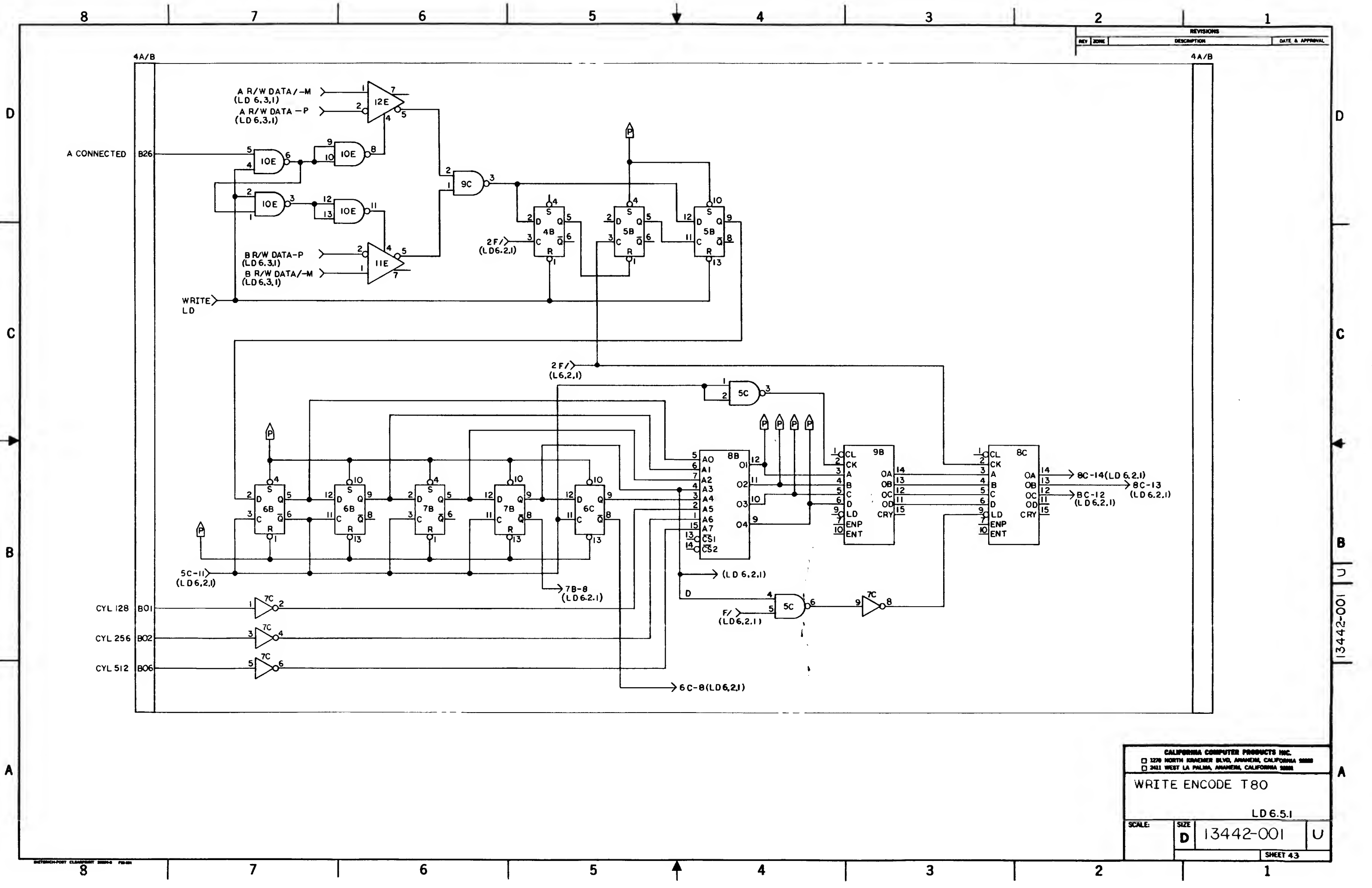


Century Data Systems, Inc.			
1270 N. Kraemer, Anaheim, Ca. 92806			
DATA AND CLOCKS, T80			
LD 6.3.1			
DRAWN	11/11/78	SIZE	D
CHECK			
APP'D			
SCALE:		13442 - 001	
		SHEET 39 OF 106	





Century Data		ANAHEIM, CALIFORNIA	
DATA SEPARATOR-WRITE ENCODE			
T25.T50		LD6.5	
DRAWN	SIZE	REV	
CHECK	D	13442-001	F
APPD			
SCALE:		SHEET 42 OF	



REVISEMENTS		
REV	ZONE	DESCRIPTION

CALIFORNIA COMPUTER PRODUCTS INC.
1270 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92805
2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801

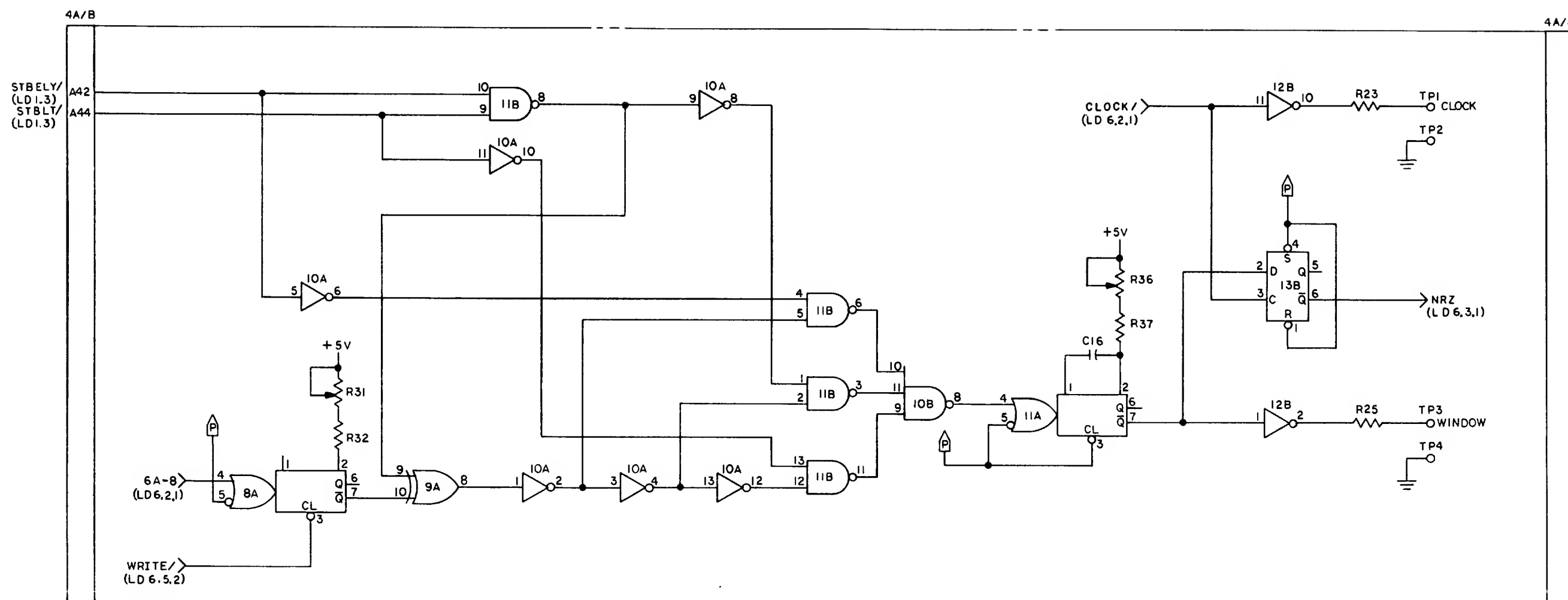
WRITE ENCODE T80

LD 6.5.1

SCALE: SIZE D 13442-001 U

SHEET 43

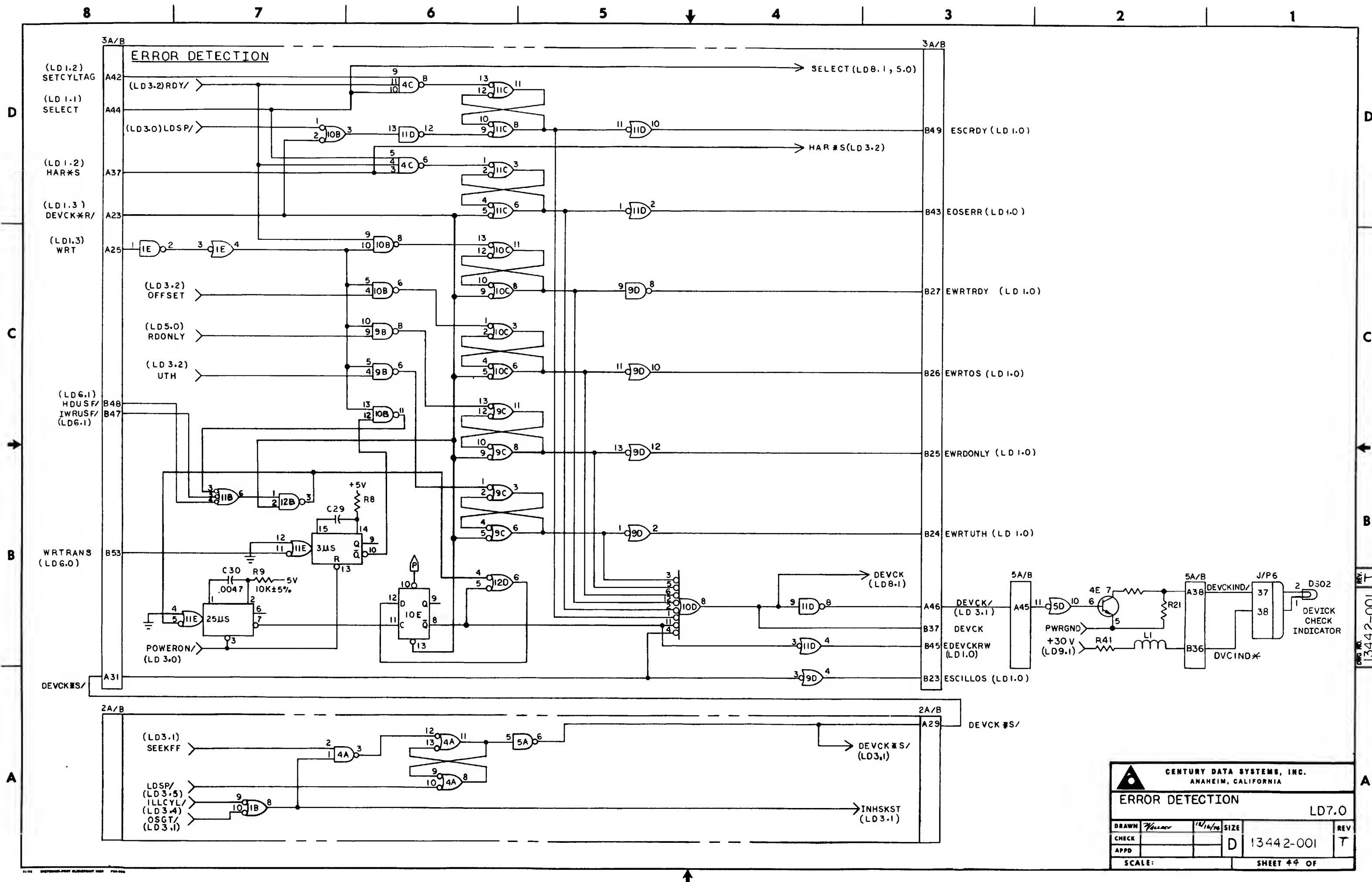
REVISIONS			
REV	ZONE	DESCRIPTION	DATE & APPROV



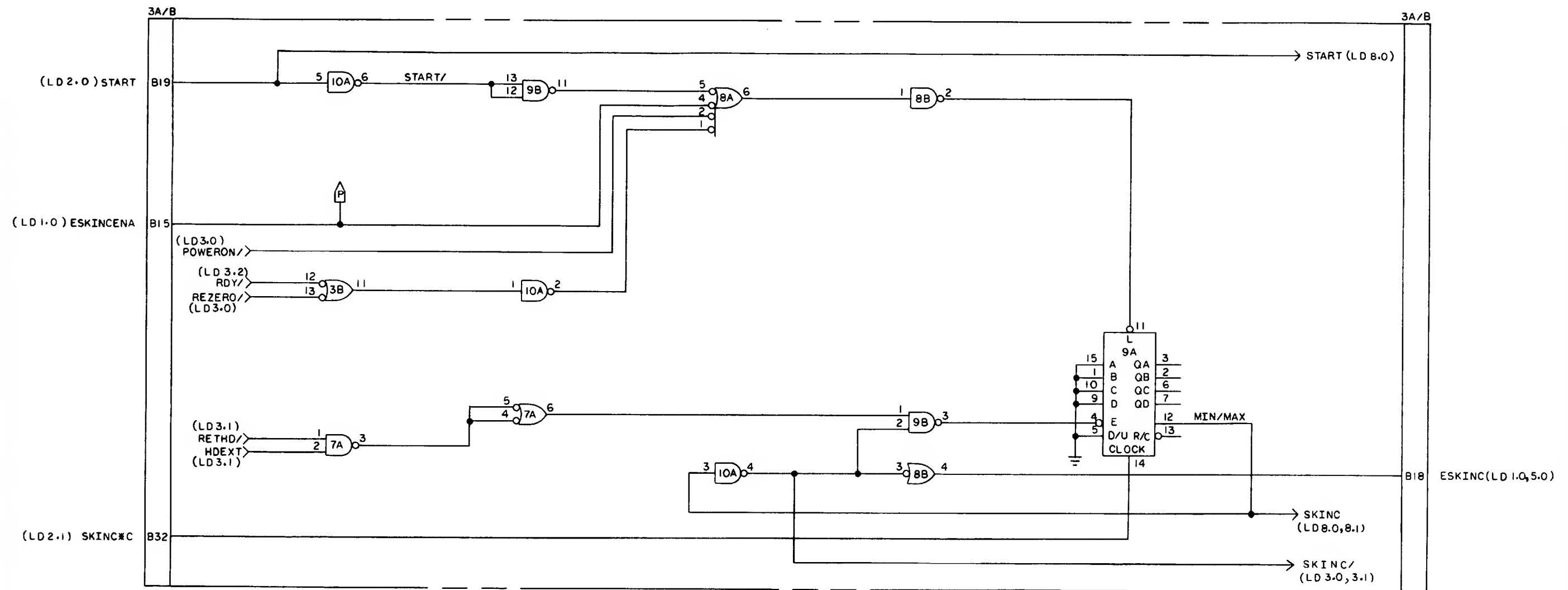
3442-001	C	B
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FA

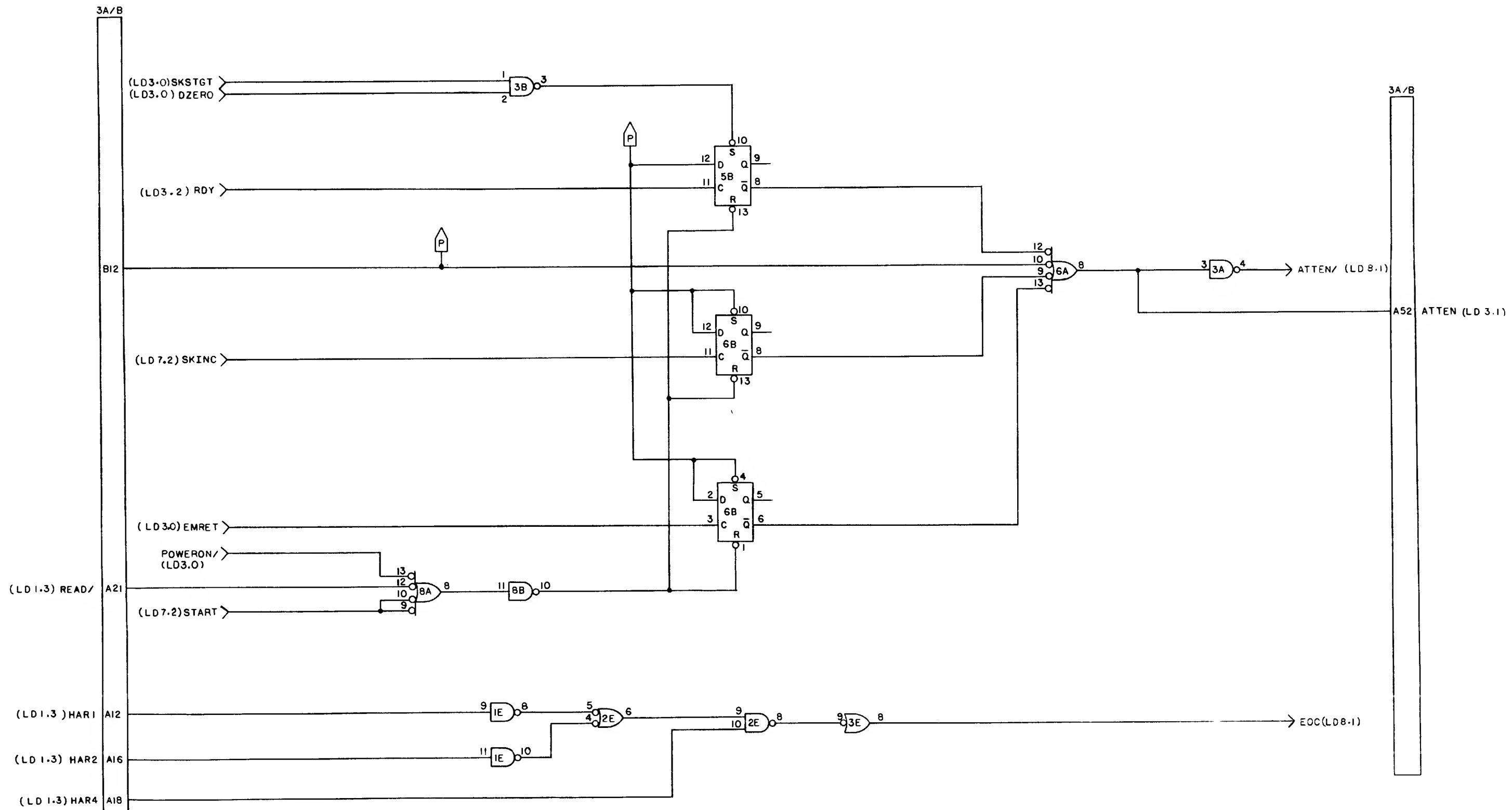
CALIFORNIA COMPUTER PRODUCTS INC. <input type="checkbox"/> 1270 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92806 <input type="checkbox"/> 2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801			
WRITE ENCODE T80 LD6.53			
SCALE:	SIZE D	1342-001	L
<i>Ray W. Harris</i>		SHEET 43.2	




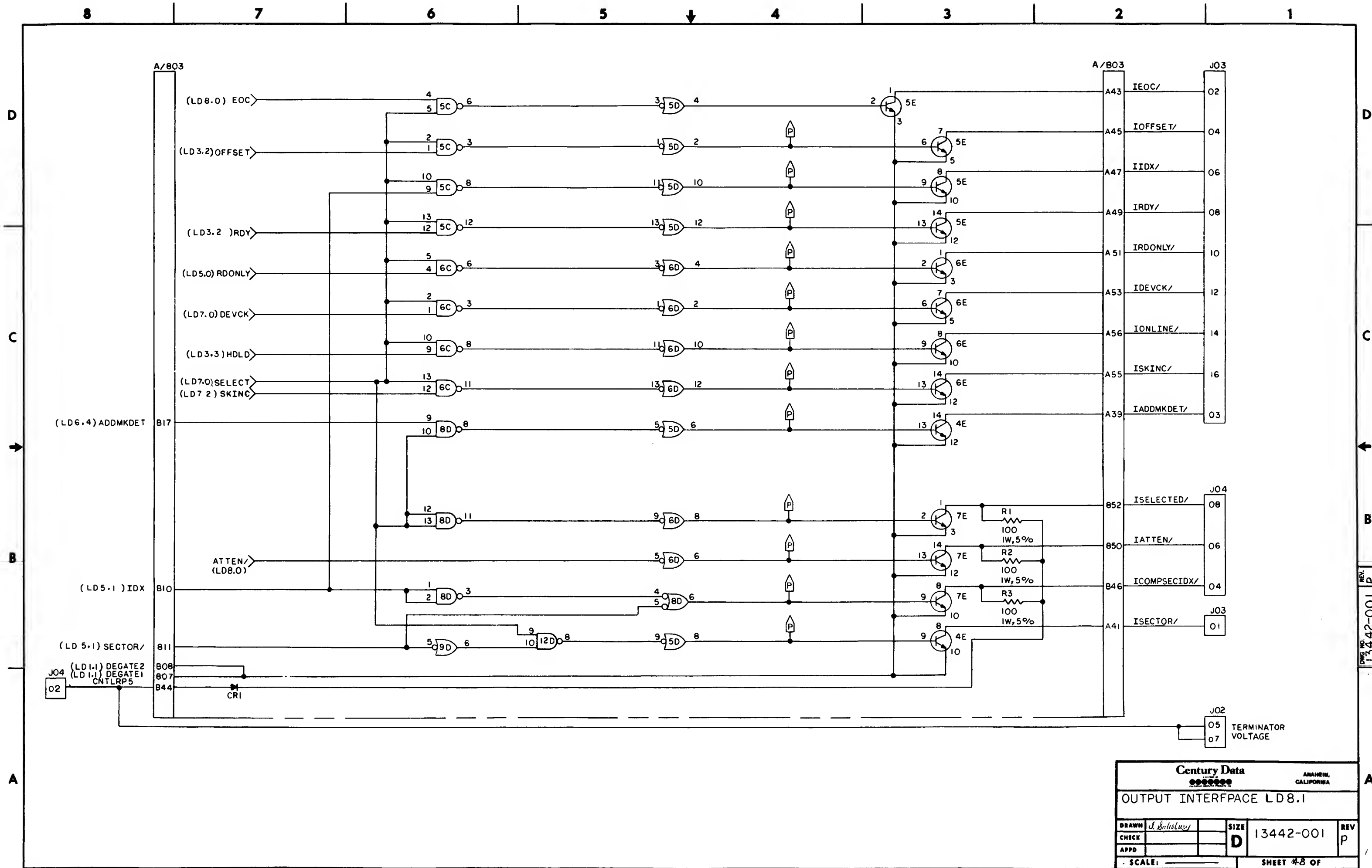
CENTURY DATA SYSTEMS, INC. ANAHEIM, CALIFORNIA			
ERROR DETECTION			LD7.0
DRAWN	W. H. H.	12/16/76	SIZE
CHECK			D
APPD			13442-001
SCALE:		SHEET 44 OF	

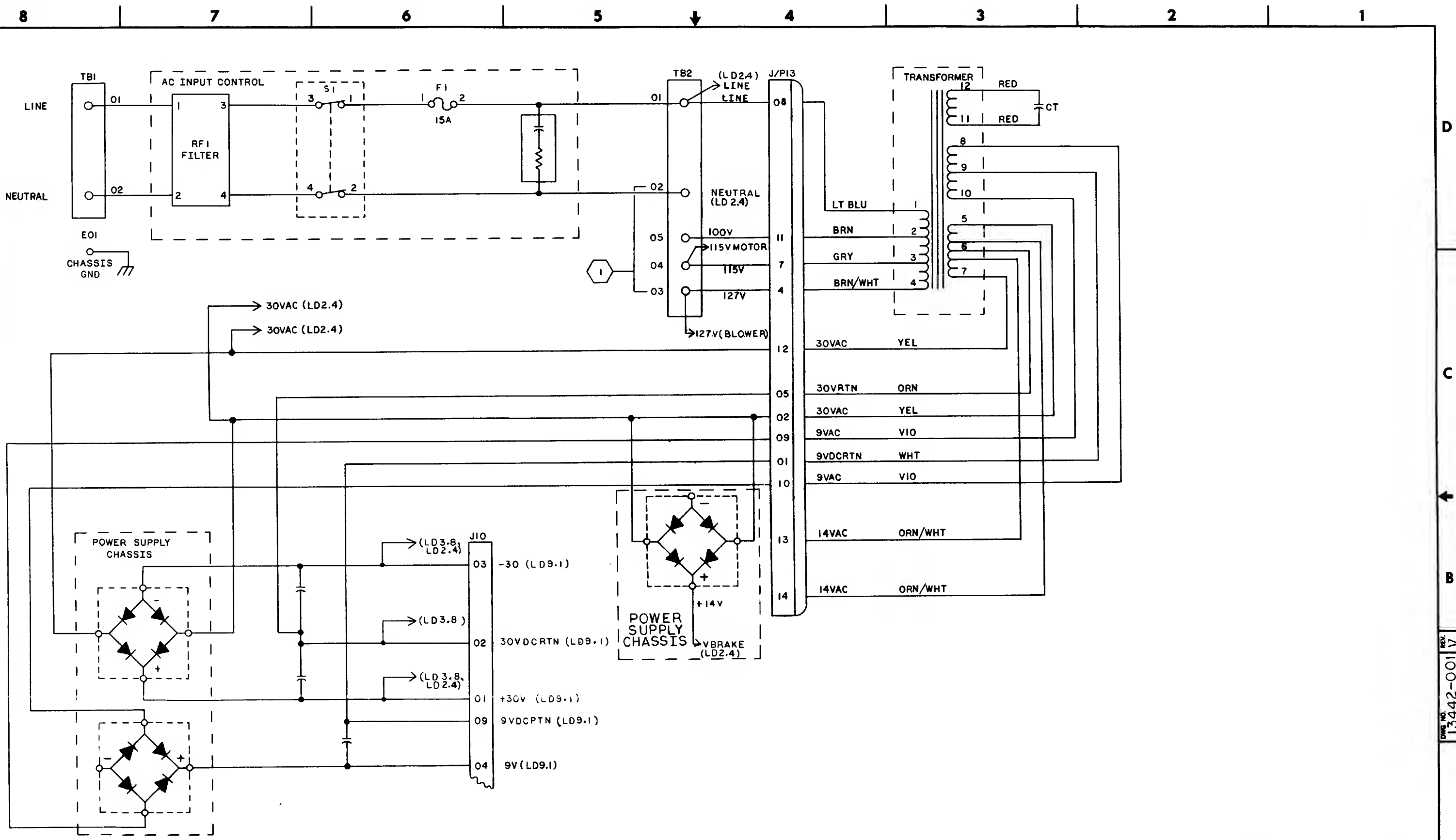


 CENTURY DATA SYSTEMS, INC. ANAHEIM, CALIFORNIA			
SEEK INCOMPLETE LD7.2			
DRAWN <i>J. Sullivan</i>	12-4-74	SIZE D	REV T
CHECK APPD	13442-001	SHEET 46 OF	
SCALE:		13442-001	



 CENTURY DATA SYSTEMS, INC. ANAHEIM, CALIFORNIA			
ATTENTION AND EOC LD8.0			
DRAWN		SIZE	REV
CHECK		D	13442-001 C
APPRO			
SCALE:		SHEET 47 OF	





NOTES:

1 TB2-2 IS JUMPERED TO TB2-3, (127VAC), TO TB2-4, (115V), OR TO TB2-5, (100VAC).

Century Data		ANAHEIM, CALIFORNIA			
POWER SUPPLY (LD9.0.1)					
TRIDENT					
DRAWN	2 DEW 4	12-6-75	SIZE		
CHECK			D		
APPD					
SCALE:		SHEET 49 OF			
		REV V			

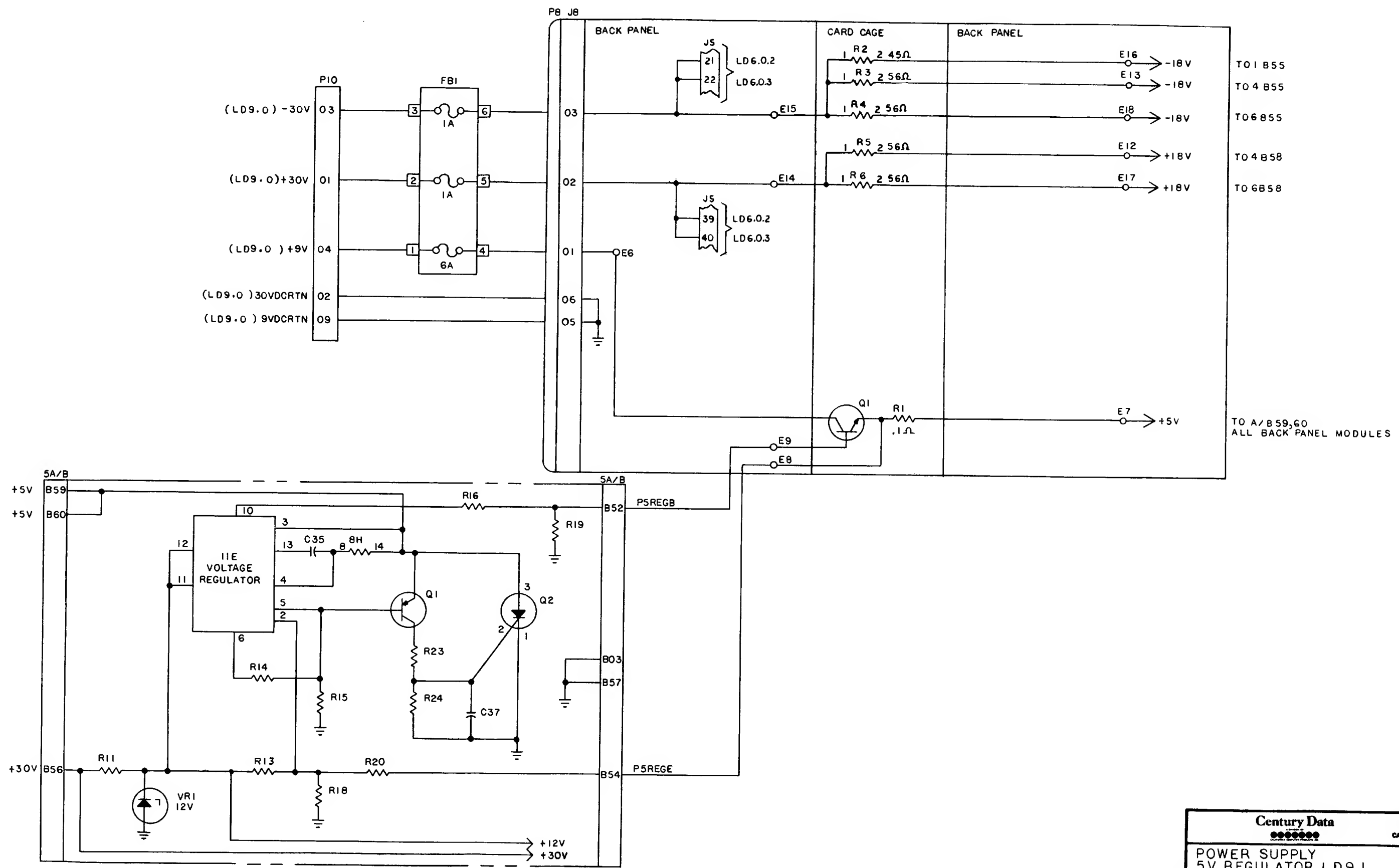
8 7 6 5 4 3 2 1

D

C

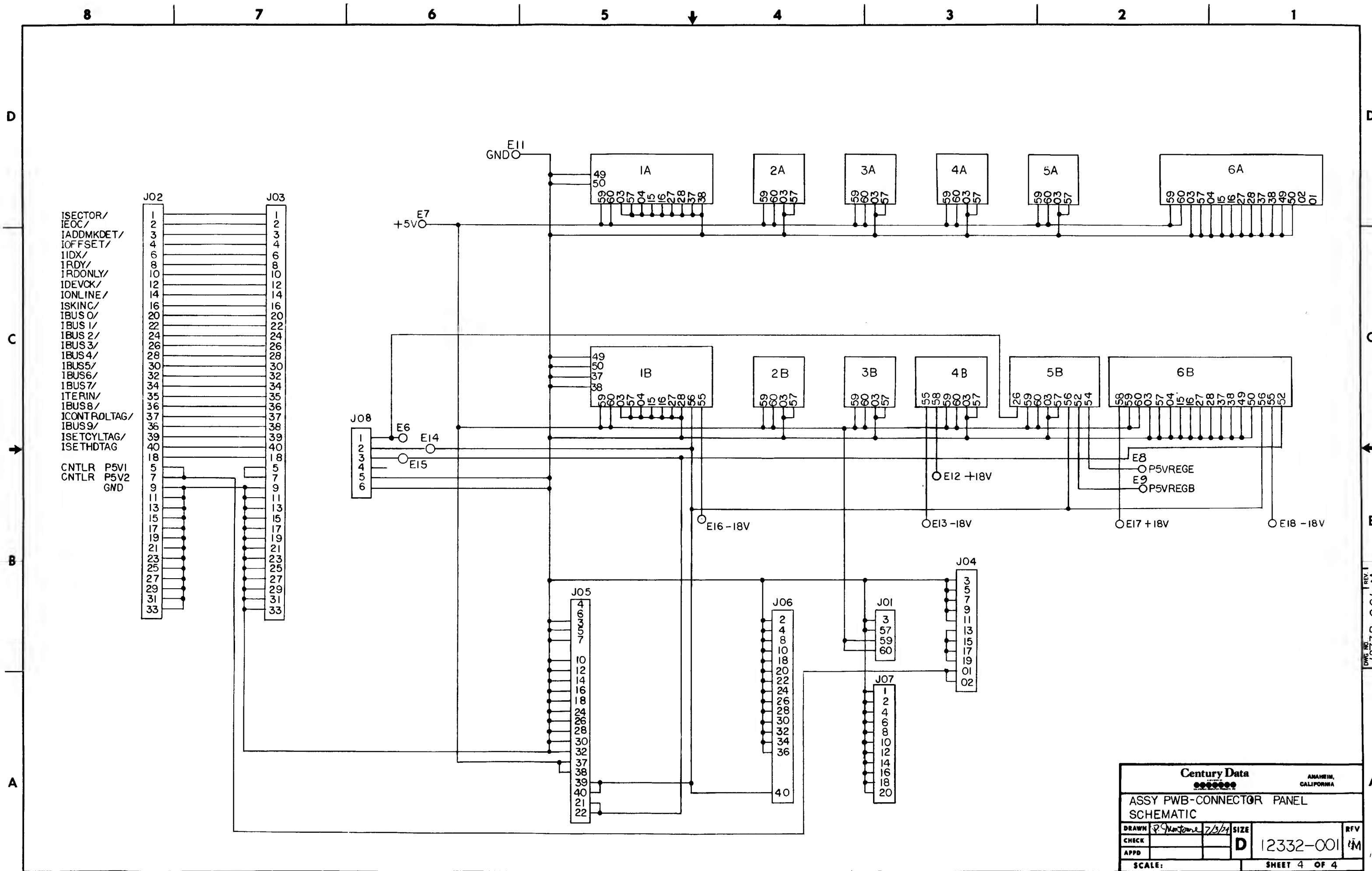
B

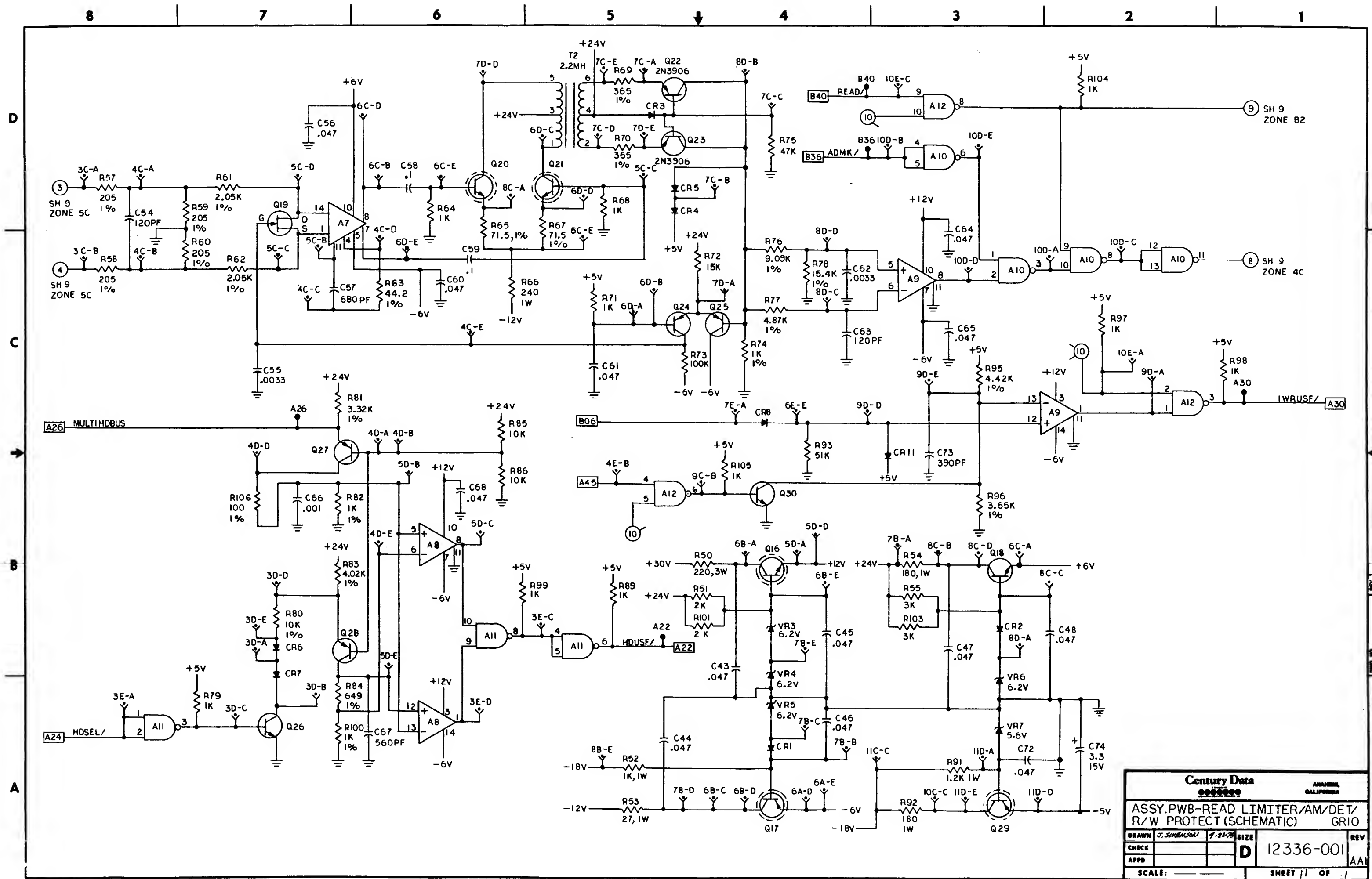
A



TO 1 B55
TO 4 B55
TO 6 B55
TO 4 B58
TO 6 B58
TO A/B 59,60
ALL BACK PANEL MODULES

Century Data		ANAHEIM, CALIFORNIA	
POWER SUPPLY 5V REGULATOR LD9.1			
DRAWN	A. Salisbury	3-5-75	SIZE
CHECK			D
APPD			
SCALE:		SHEET 50 OF	





Century Data				ANAHEIM, CALIFORNIA	
9999999					
ASSY.PWB-READ LIMITER/AM/DET/ R/W PROTECT (SCHEMATIC) GR10					
DRAWN	J. SHELTON	7-21-75	SIZE	12336-001	REV
CHECK			D		
APPD					AA
SCALE: _____			SHEET 11 OF 11		



REF DES LAST USED		REF OES NOT USED	
6A			
7B			
12C		10C	
120			
12E			
R10	49	68	60
C28	S1		



CYLINDER ADDRESS REGISTER

SUBTRACTOR

DIFFERENCE INPUT CONTROL

D

D

C

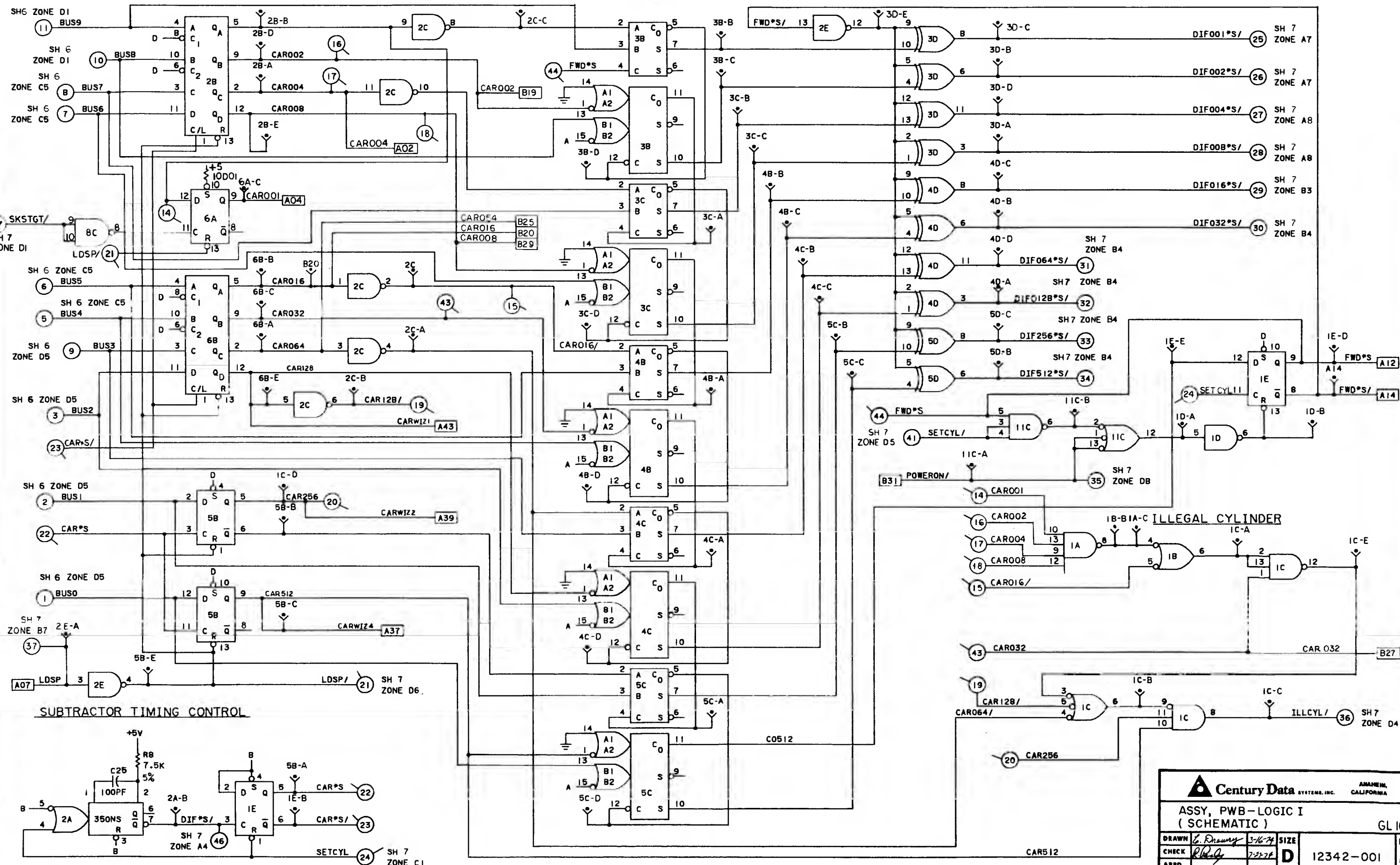
C

B

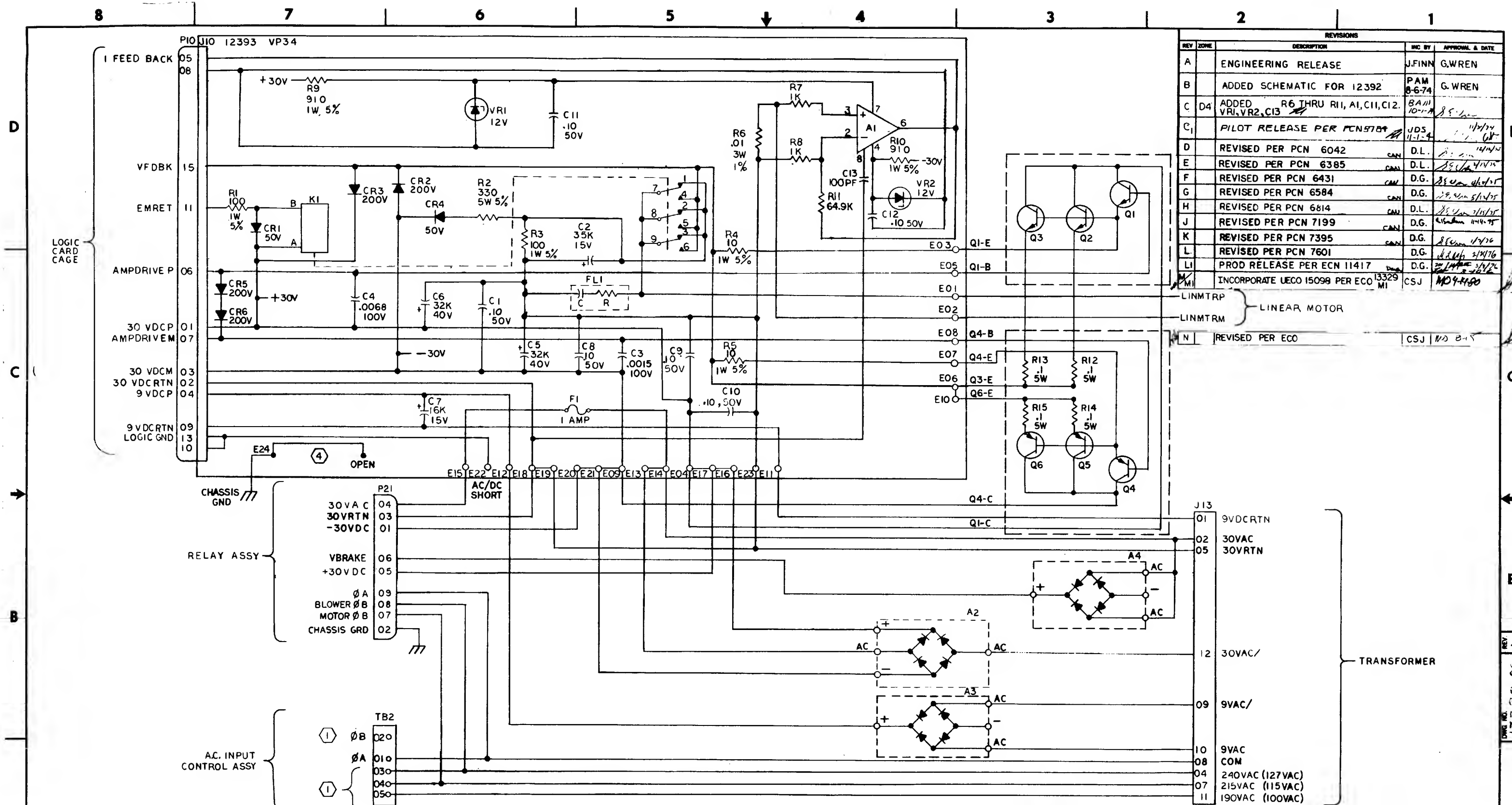
B

A

A



Century Data SYSTEMS, INC. ANAHEIM, CALIFORNIA	
ASSY, PWB-LOGIC I (SCHEMATIC)	
GL 10	
DRAWN <i>E. Drouny</i> 3-16-74	SIZE
CHECK <i>R. Kelly</i> 7-27-74	D
APPD	12342-001
SCALE: —	SHEET 8 OF 8



REVISIONS			
REV	ZONE	DESCRIPTION	INC BY / APPROVAL & DATE
A		ENGINEERING RELEASE	J.FINN / G.WREN
B		ADDED SCHEMATIC FOR 12392	PAM 8-6-74 / G.WREN
C	D4	ADDED R6 THRU R11, A1, C11, C12, VR1, VR2, C13	BA/11 10-1-74 / JDS
C1		PILOT RELEASE PER PCN 5784	JDS 11-1-74
D		REVISED PER PCN 6042	D.L. 11/1/74
E		REVISED PER PCN 6385	D.L. 12/1/74
F		REVISED PER PCN 6431	D.G. 1/1/75
G		REVISED PER PCN 6584	D.G. 2/1/75
H		REVISED PER PCN 6814	D.L. 3/1/75
J		REVISED PER PCN 7199	D.G. 4/1/75
K		REVISED PER PCN 7395	D.G. 5/1/75
L		REVISED PER PCN 7601	D.G. 6/1/75
LI		PROD RELEASE PER ECN 11417	D.G. 7/1/75
MI		INCORPORATE UECO 15098 PER ECO 13329	CSJ 10/4/75

LINEAR MOTOR
LINMTRP
LINMTRM
N
REVISED PER ECO
CSJ 11/2/75

TRANSFORMER	
J13	01 9VDCRTN
	02 30VAC
	05 30VVRTN
	12 30VAC/
	09 9VAC/
	10 9VAC
	08 COM
	04 240VAC (127VAC)
	07 215VAC (115VAC)
	11 190VAC (100VAC)

REF DES LAST USED	REF DES NOT USED
C13 E23	J1-J9
CR4 J13	J11, J12
R11 VR2	
K1 A4	P1-P9
FL1 P21	P11-P20
F1 TB2	TB1

MODEL NO. FIRST USE T-50		NEXT ASSY FIRST USE 12449 -	
UNLESS OTHERWISE SPECIFIED		DRAWN J.FINN 6/74	
DIMENSIONS ARE IN INCHES		CHECK ADDIS 8-22-74	
TOLERANCES ON DECIMALS ANGLES		APPD M/1/74	
XX ±		FINISH	
XXX ±		MATERIAL	
SURFACE ROUGHNESS PER MIL-STD-10		SCALE: D	
		SIZE DWG NO. 13329-001	
		REV M/1	
		SHEET 1 OF 1	

4 MOVE JUMPER FROM "OPEN" TERMINAL TO "AC/DC SHORT" FOR OFF LINE OPERATION.
3. CAPACITANCE VALUES ARE IN MICROFARADS
2. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.

1 TB2-2(ØB) IS JUMPED TO TB2-3 (240VAC/127VAC), TB2-4 (215VAC/115VAC) OR TB2-5 (190VAC/100VAC) DEPENDING ON LINE VOLTAGE.

NOTES: UNLESS OTHERWISE SPECIFIED.

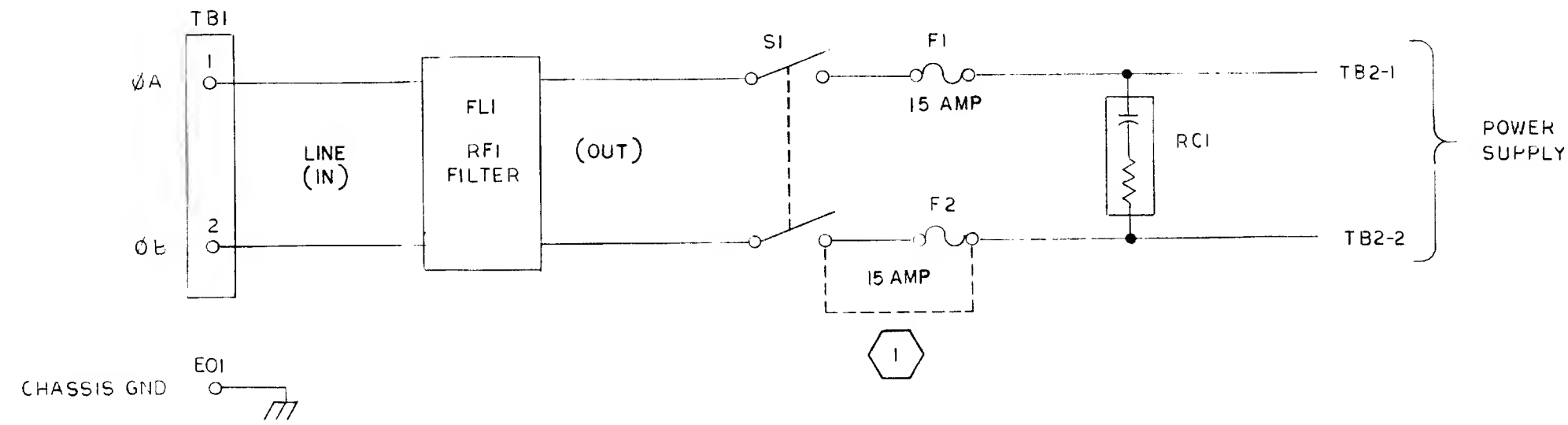
4

3

2

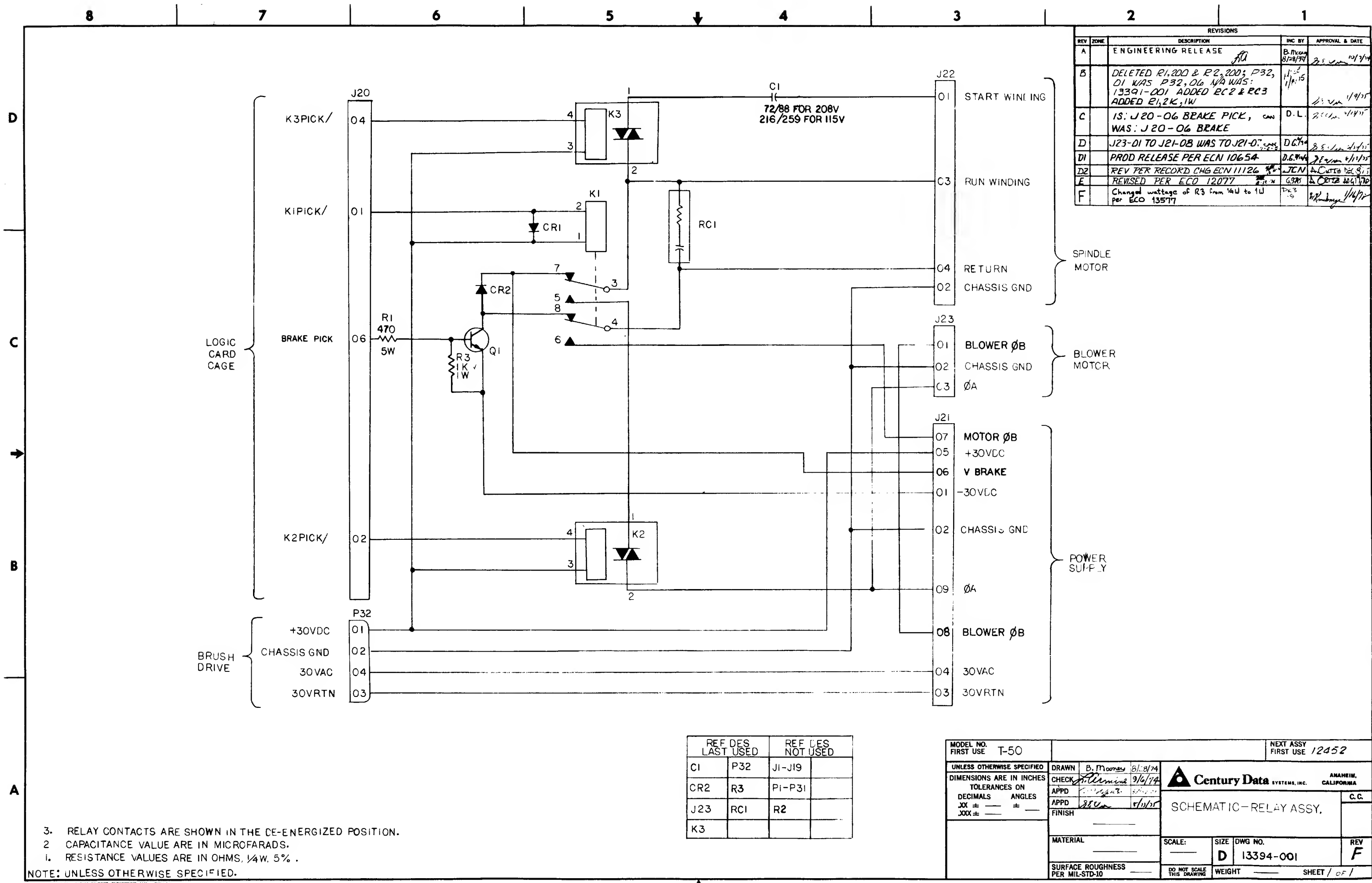
1

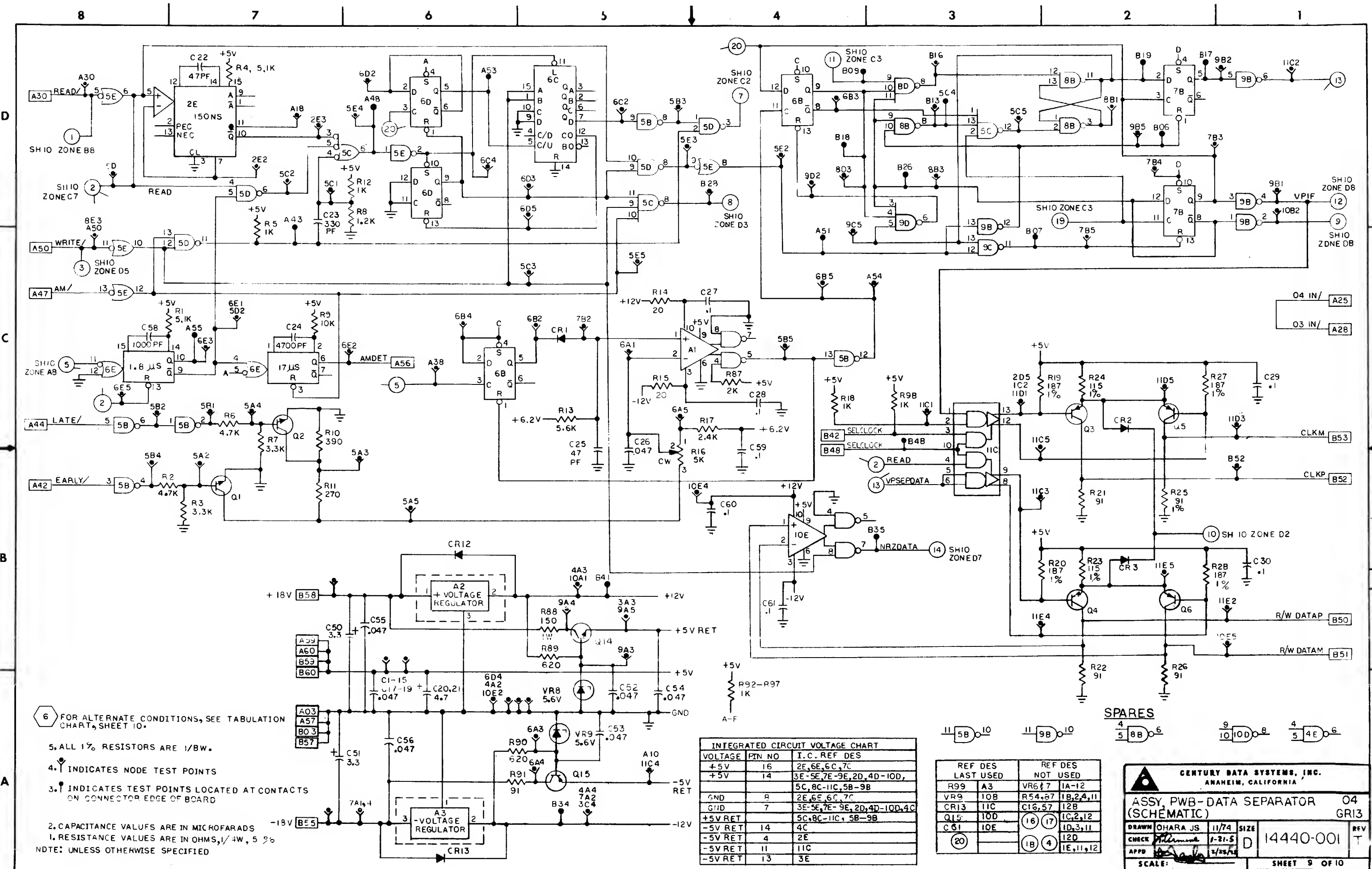
REVISIONS				
REV	ZONE	DESCRIPTION	INC BY	APPROVAL & DATE
A		ENGINEERING RELEASE	JFINN 6/74	<i>[Signature]</i> 6/74
B		ADDED 15 AMP CALLOUT TO F1,F2; ADDED FLI,LINE (IN) & (OUT) CALLOUT TO RFI FILTER; ADDED NOTE 1; NEXT ASSY WAS,12-49 001.	D.L.	<i>[Signature]</i> 1/4/75
BI		PROD RELEASE PER ECN 10654	D.G. 1/4/75	<i>[Signature]</i> 1/14/75



1 F1,F2 FOR LINE TO LINE 13372-001 F1 ONLY FOR LINE TO NEUTRAL 13372-002.

MODEL NO. FIRST USE T-50		NEXT ASSY FIRST USE 13372	
UNLESS OTHERWISE SPECIFIED		DRAWN J FINN 6/74	
DIMENSIONS ARE IN INCHES		CHECK	
TOLERANCES ON		APPD <i>[Signature]</i> 6/74	
DECIMALS XX ±		APPD <i>[Signature]</i> 6/10/74	
ANGLES XXX ±		FINISH	
MATERIAL		A.C. INPUT CONTROL (SCHEMATIC)	
		SCALE: _____	
		SIZE C	
SURFACE ROUGHNESS PER MIL-STD-10 _____		DWG NO. 13343-001	
DO NOT SCALE THIS DRAWING		REV B1	
WEIGHT _____		SHEET 1 OF 1	





6 FOR ALTERNATE CONDITIONS, SEE TABULATION CHART, SHEET 10.

- 5. ALL 1% RESISTORS ARE 1/BW.
- 4. INDICATES NODE TEST POINTS
- 3. INDICATES TEST POINTS LOCATED AT CONTACTS ON CONNECTOR EDGE OF BOARD
- 2. CAPACITANCE VALUES ARE IN MICROFARADS
- 1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%
- NOTE: UNLESS OTHERWISE SPECIFIED

INTEGRATED CIRCUIT VOLTAGE CHART			
VOLTAGE	PIN NO	I.C. REF	DES
+5V	16	2E, 6E, 6C, 7C	
+5V	14	3E, 5E, 7E, 9E, 2D, 4D, 10D, 4C	
GND	8	2E, 6E, 6C, 7C	
GND	7	3E, 5E, 7E, 9E, 2D, 4D, 10D, 4C	
+5V RET		5C, 8C, 11C, 5B, 9B	
-5V RET	14	4C	
-5V RET	4	2E	
-5V RET	11	11C	
-5V RET	13	3E	

REF DES	LAST USED	REF DES	NOT USED
R99	A3	VR6	7
VR9	10B	R54	57
CR13	11C	C16	57
Q15	10D	IC2	12
C61	10E	IC3	11
		IC4	11
		IC5	11

CENTURY DATA SYSTEMS, INC.
ANAHEIM, CALIFORNIA

ASSY, PWB-DATA SEPARATOR (SCHEMATIC) 04
GRI3

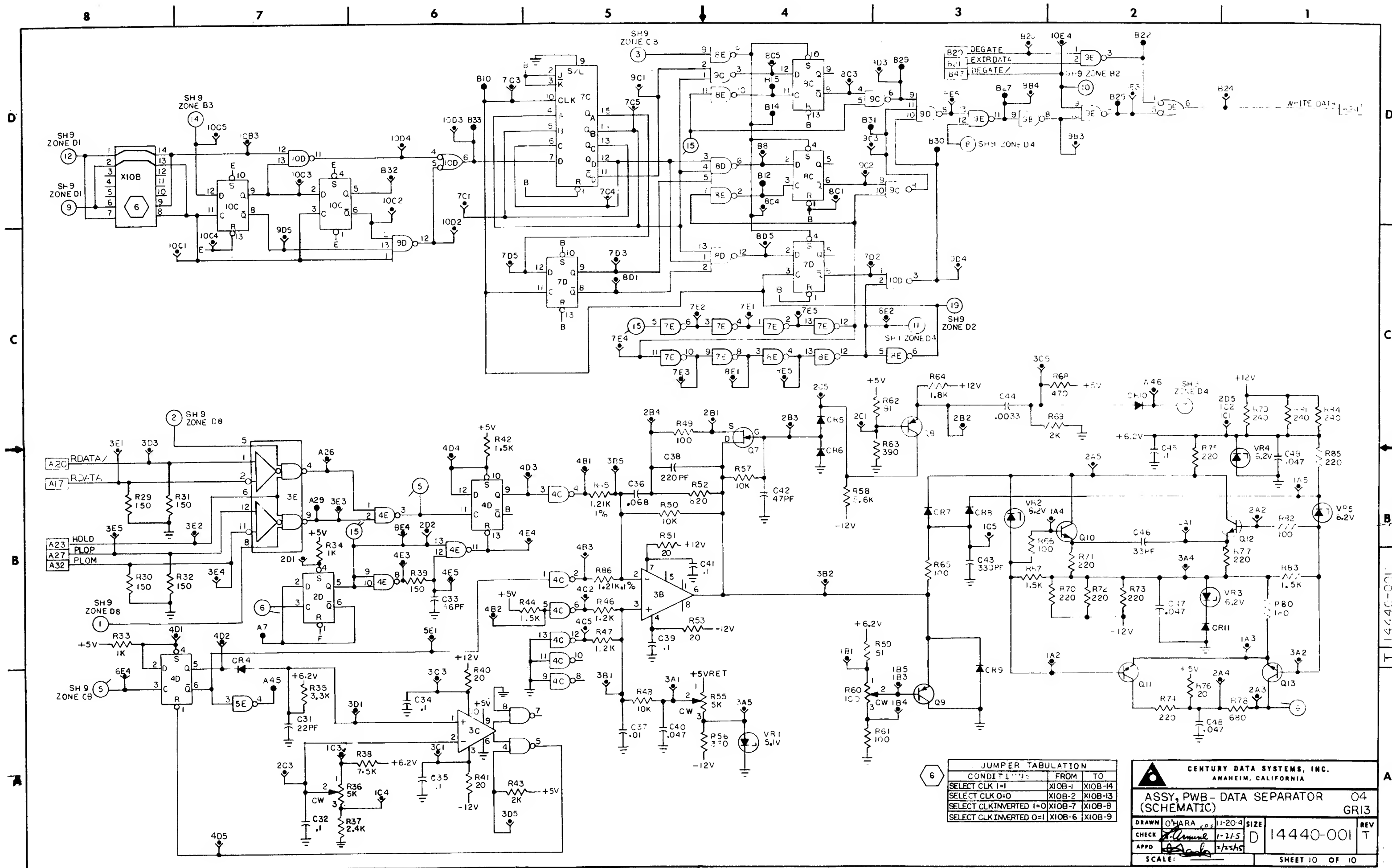
DRAWN OHARA JS 11/74

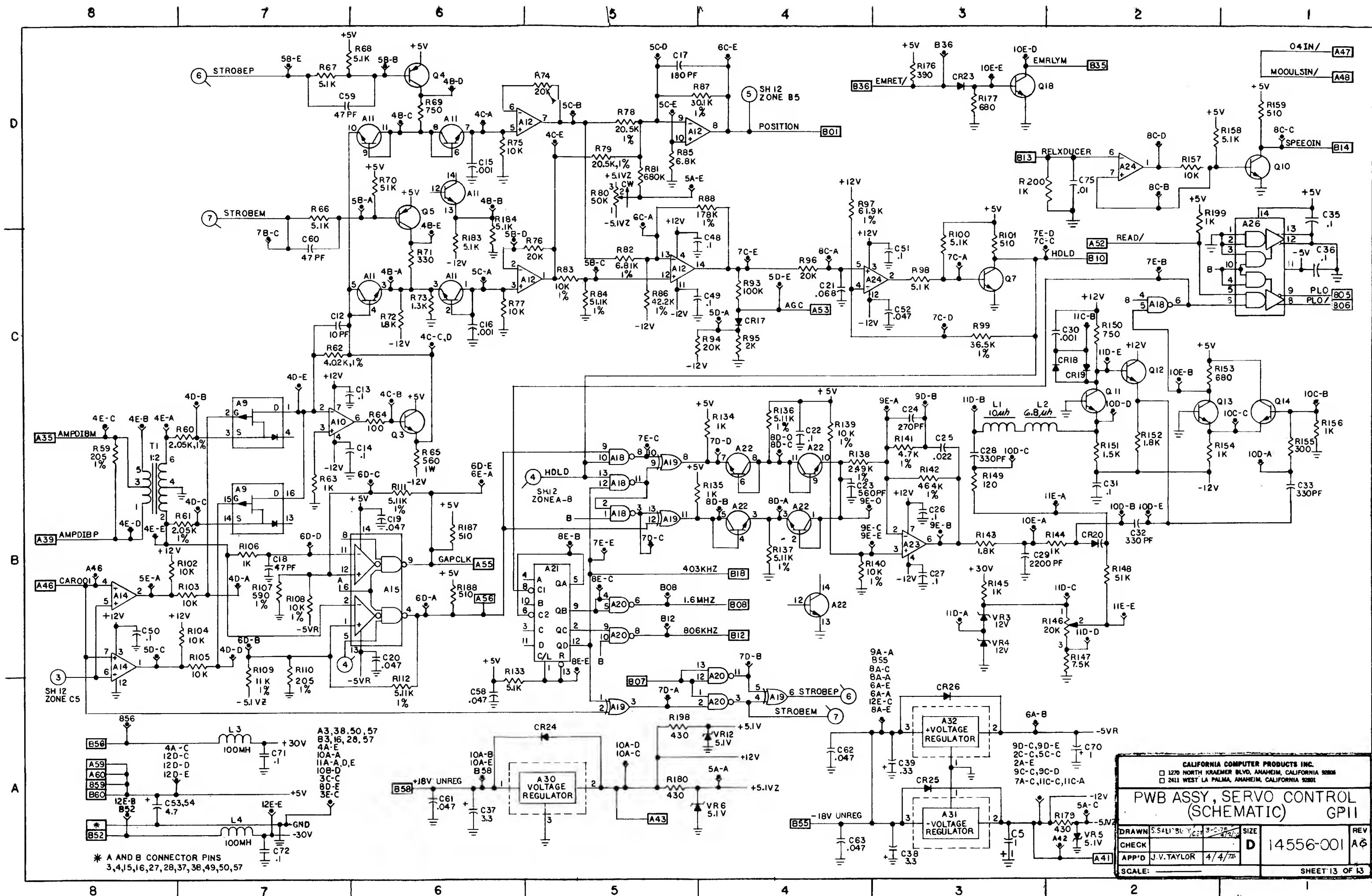
CHECK 1-21-5

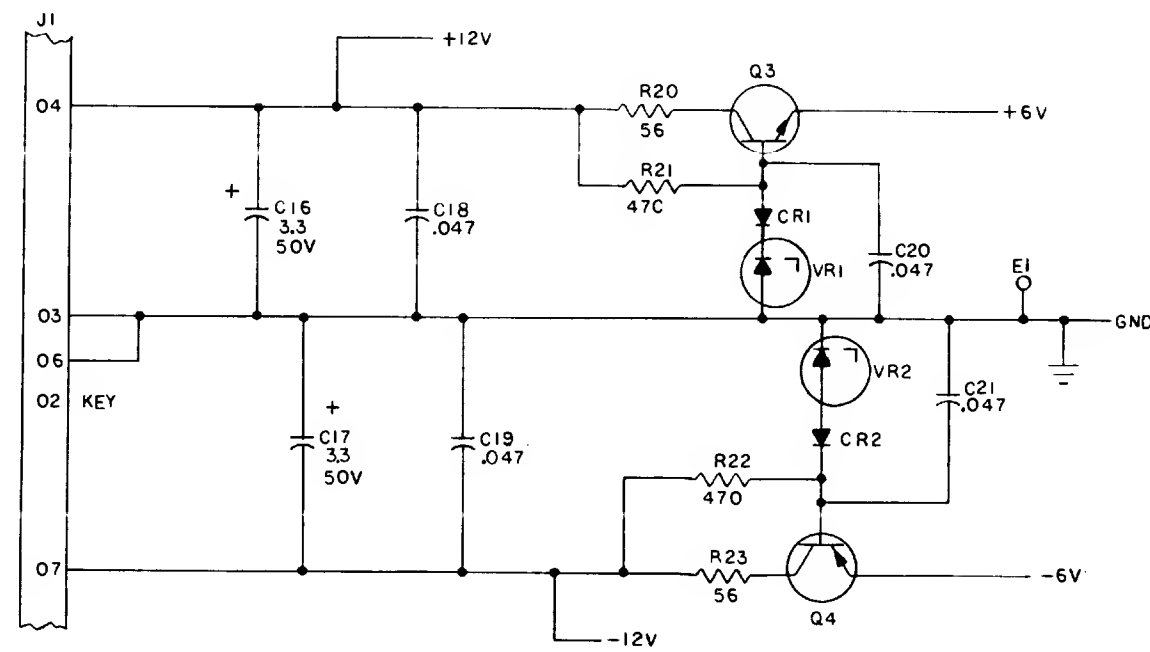
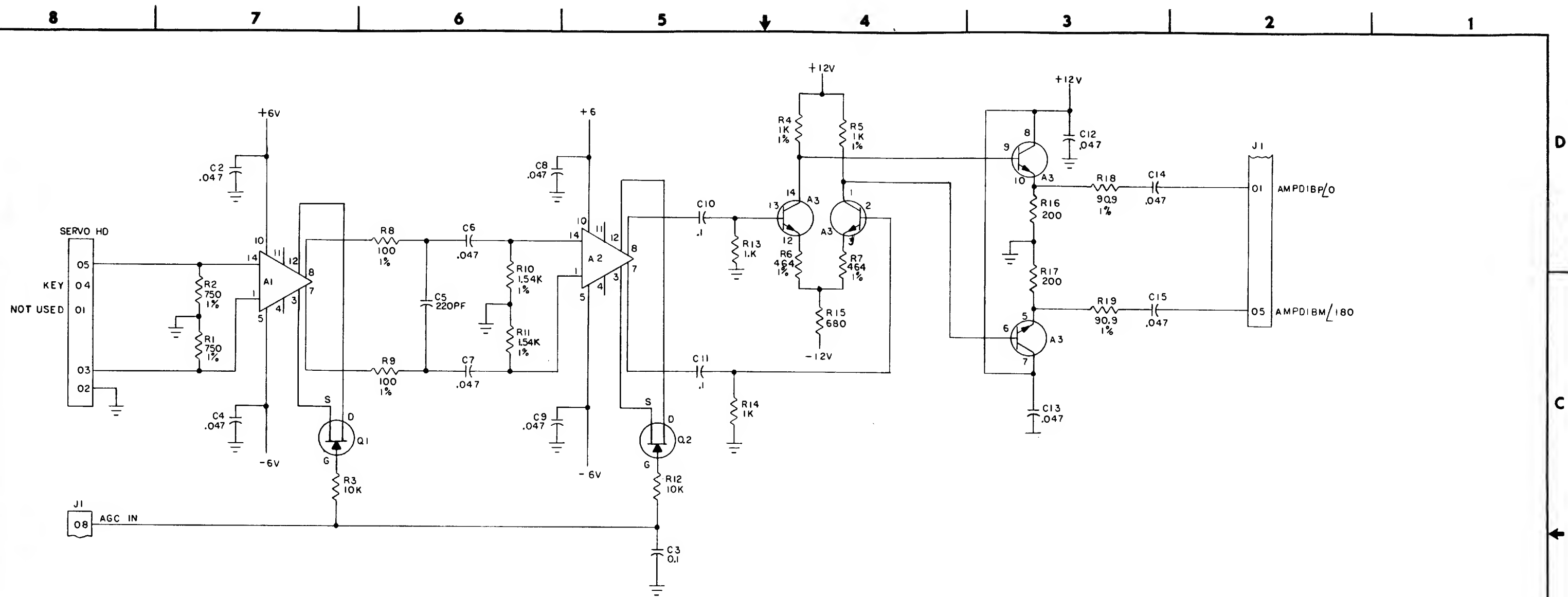
APPD 1/25/75

SCALE: 1/25/75

SHEET 9 OF 10



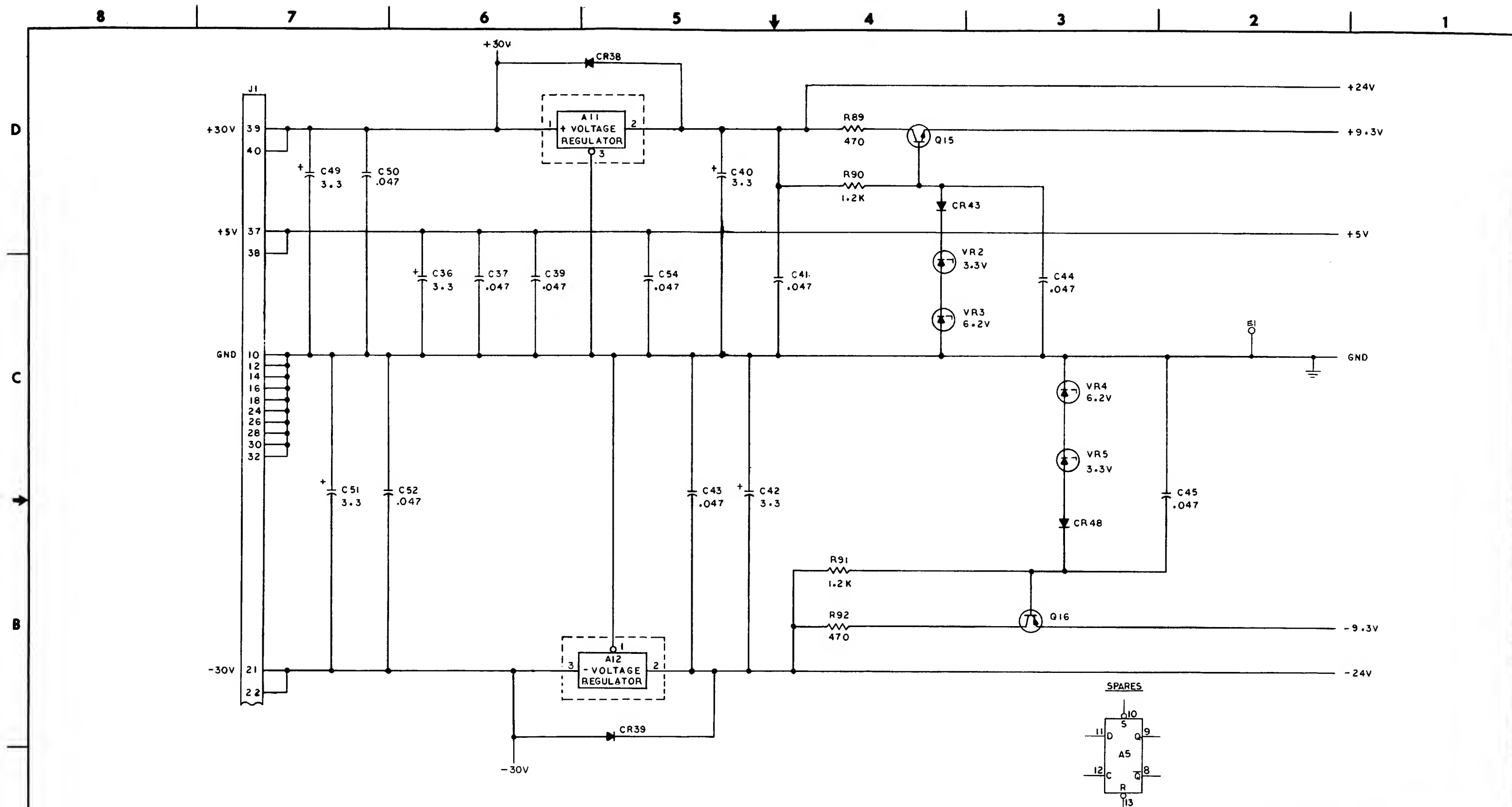




3. ALL 1% RESISTORS ARE 1/8W
2. CAPACITANCE VALUES ARE IN MICROFARADS
1. RESISTANCE VALUES ARE IN OHMS, 1/4W \pm 5%
- NOTES: UNLESS OTHERWISE SPECIFIED.

REF DES	LAST USED	REF DES	NOT USED
A3	CR2	C1	
C21			
Q4			
R23			
VR2			
HD01			
J1			

Century Data		ANAHEIM, CALIFORNIA	
PWB, ASSY-SERVO PREAMP (SCHEMATIC) VR61			
DRAWN	WERNER	12-20-75	SIZE
CHECK			D
APPD		4/1/75	REV
SCALE:		SHEET 6 OF 6	



3. ALL 1% AND 0.1% RESISTORS ARE 1/8W.

2. CAPACITANCE VALUES ARE IN MICROFARADS.

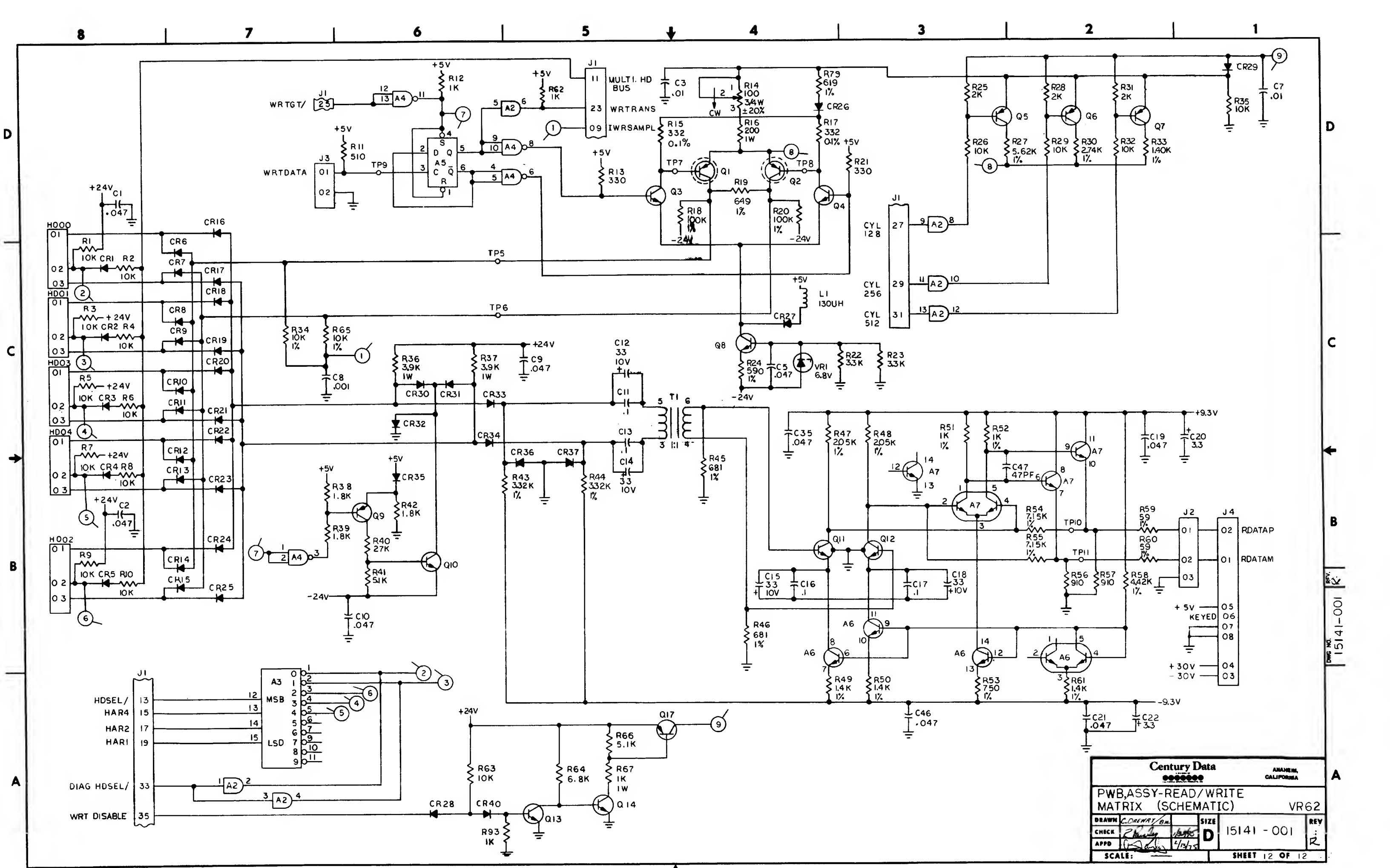
1. RESISTANCE VALUES ARE IN OHMS, 1/4W 5%.

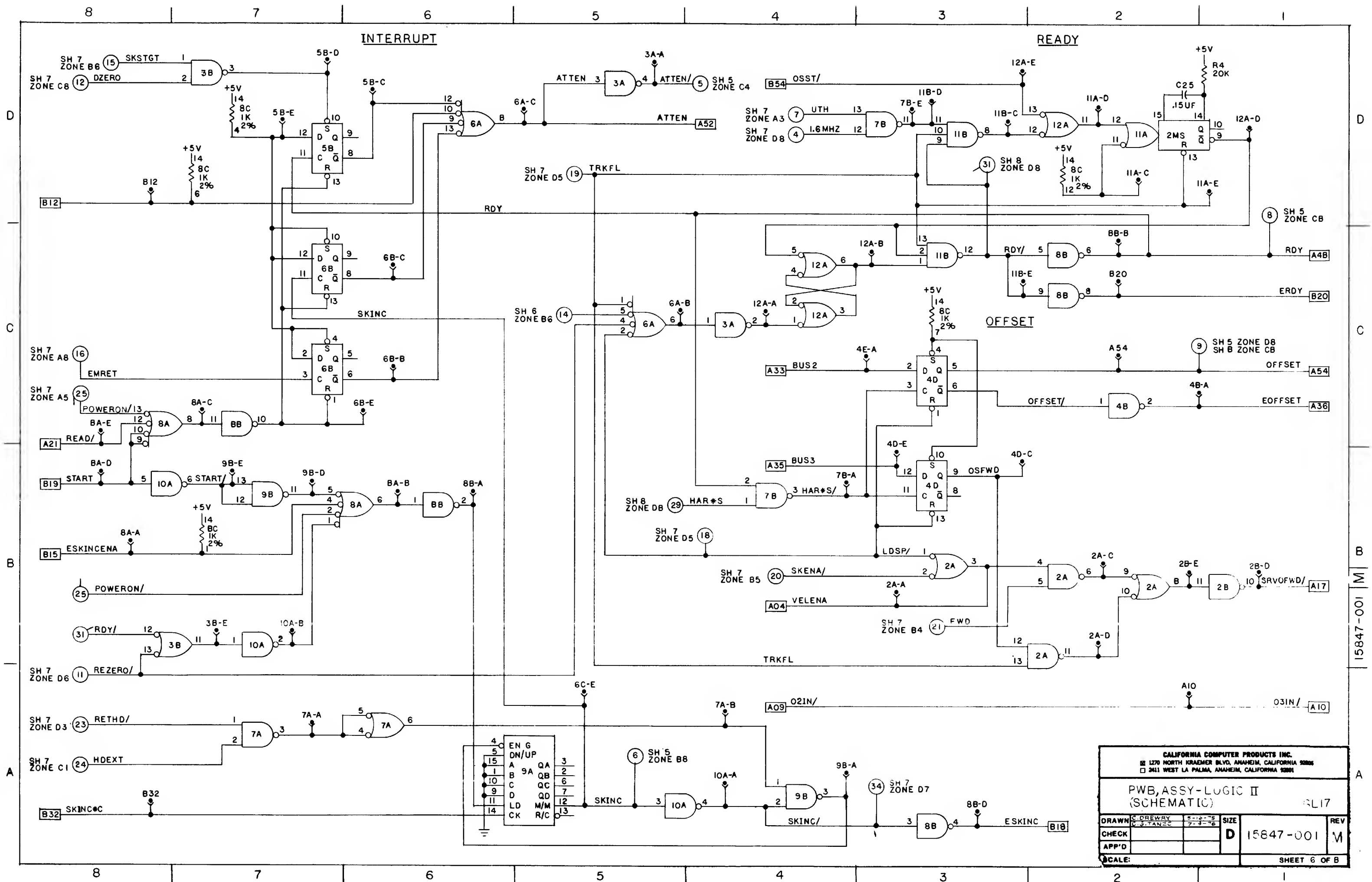
NOTES: UNLESS OTHERWISE SPECIFIED.

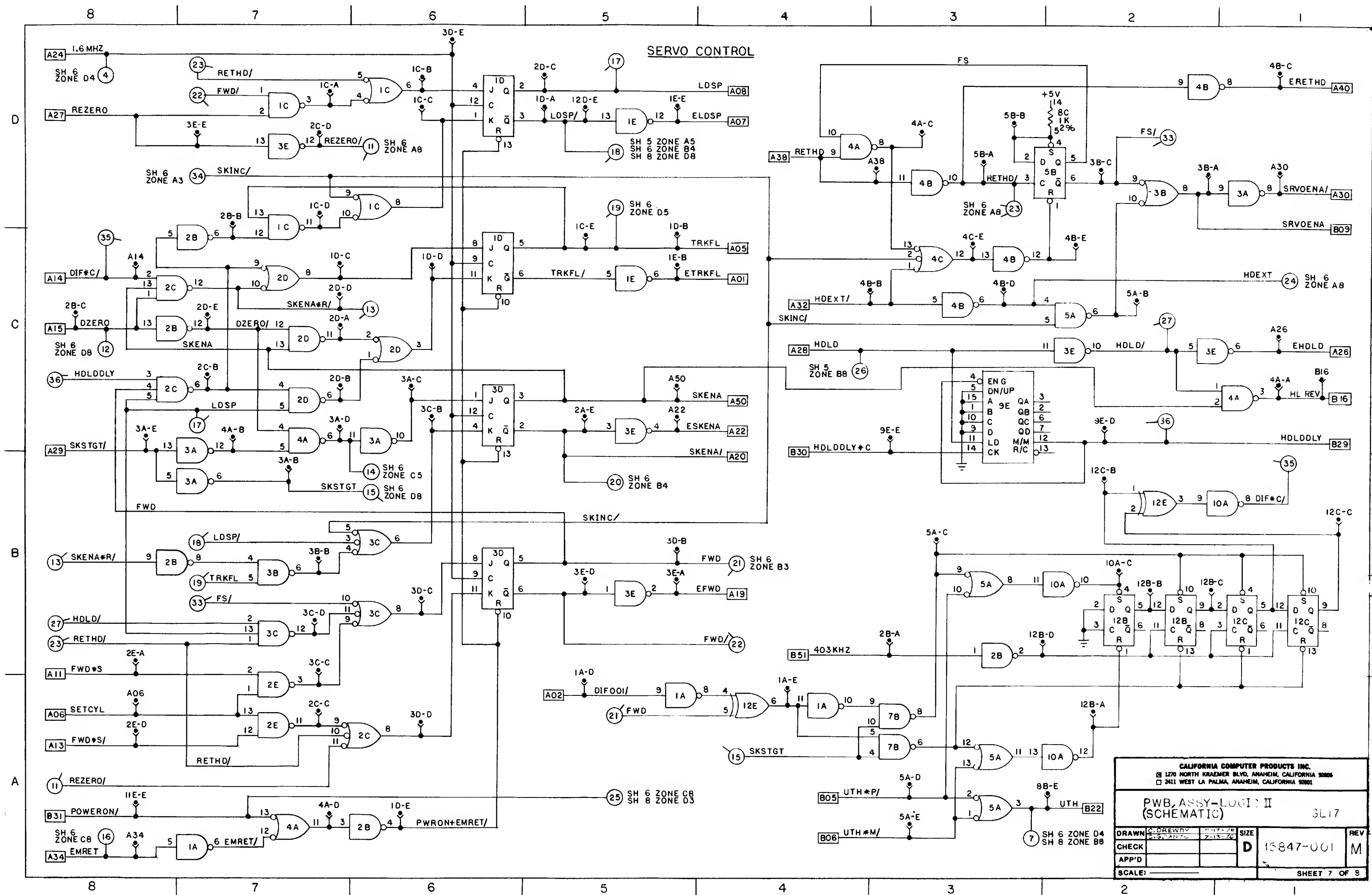
INTEGRATED CIRCUIT VOLTAGE CHART		
VOLTAGE	PIN NO.	I.C. REF DESIGNATOR
+5V	14	A2, A4, A5
+5V	16	A3
GND	7	A2, A4, A5
GND	8	A3

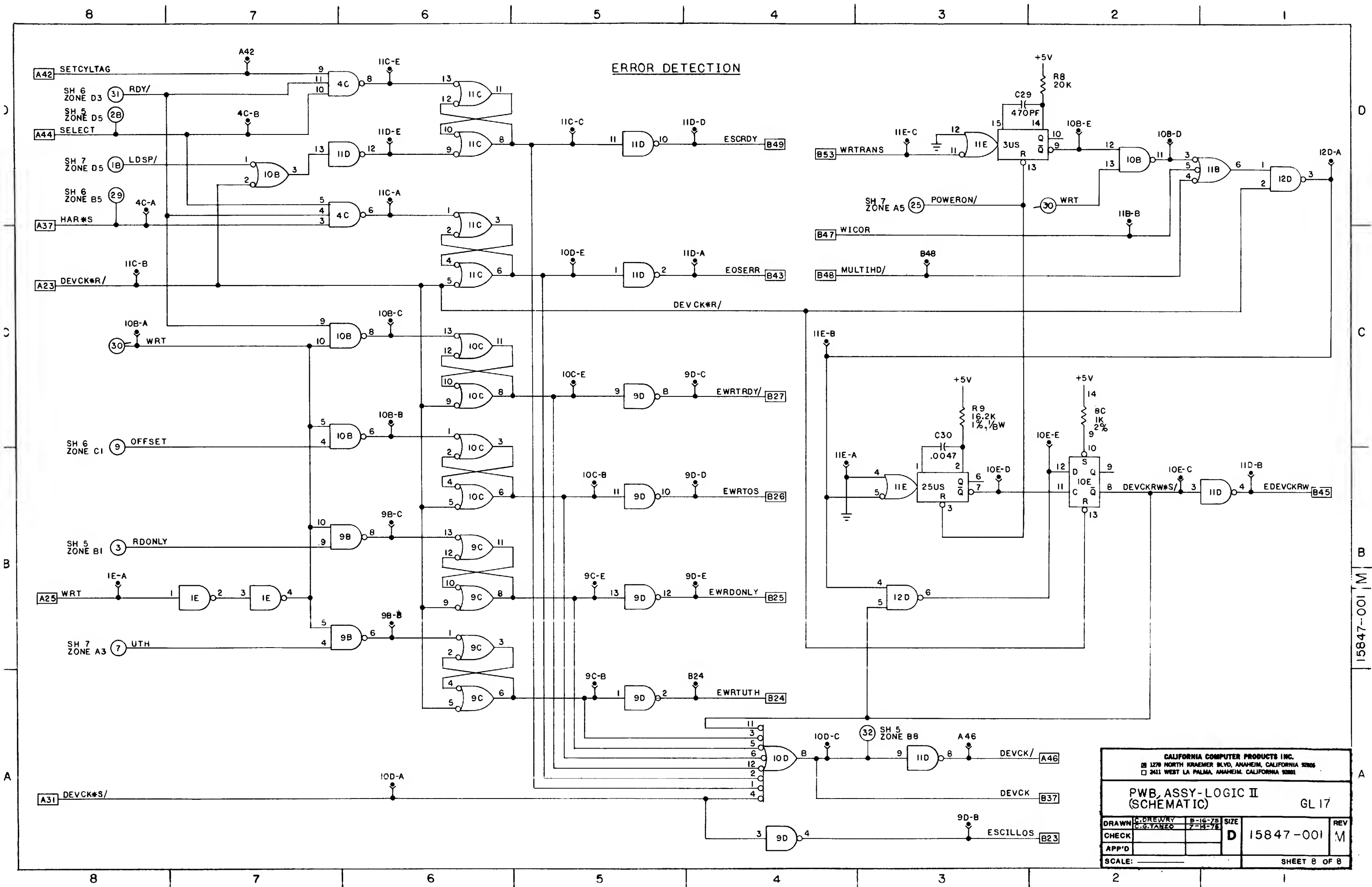
REF DES	DES	REF DES	DES
LAST	USED	NOT	USED
R93	HDO4	TPI-4	C4, C6
C54	TP11	R68-R78	A1
CR48	J4	CR41, CR42	A8
Q17	VR5		A9
L1	TI	CR44-CR47	A10
A12	E1	C23-C34, C36	C48, C53
9		R80-R88	

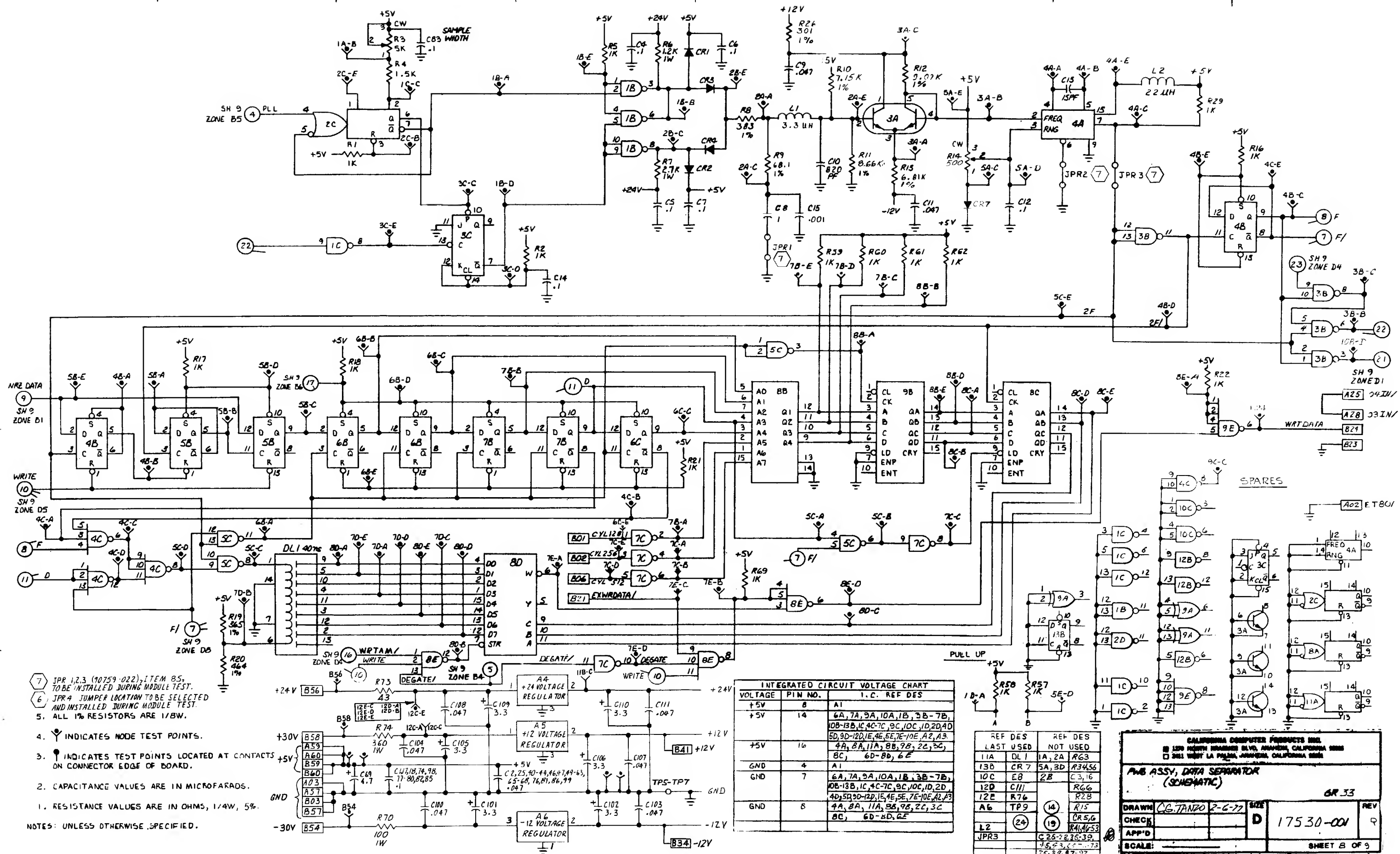
Century Data		ANAHEIM, CALIFORNIA	
PWB ASSY READ/WRITE MATRIX (SCHEMATIC) VR62			
DRAWN	C. Drury	1-20-75	SIZE D
CHECK	R. Drury	1/15/75	15141-001
APPD	H. Drury	1/15/75	REV 2
SCALE:		SHEET 11 OF 12	







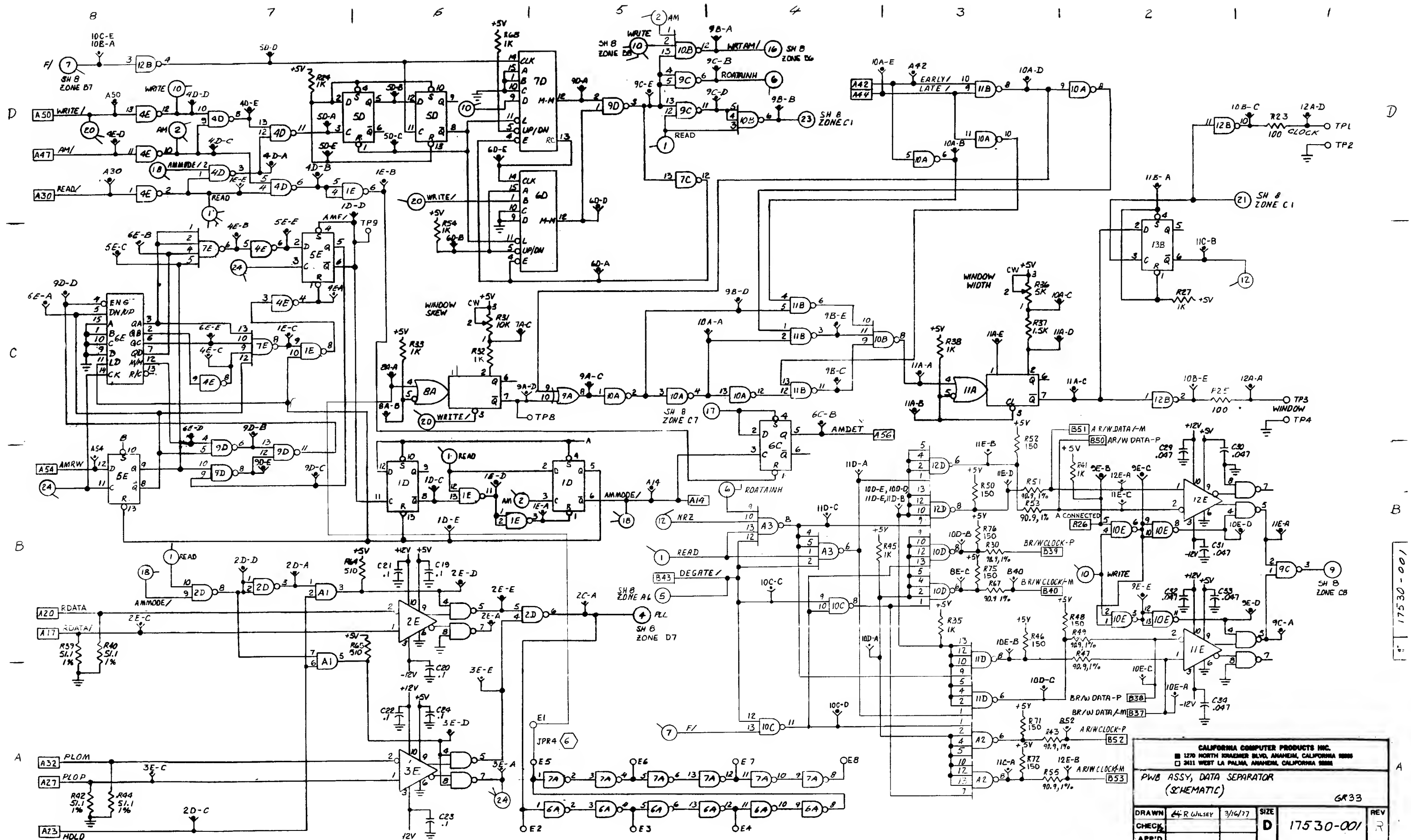




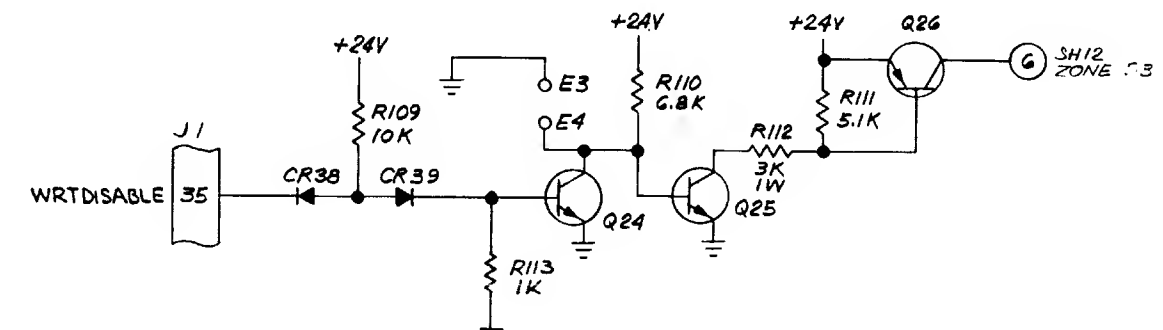
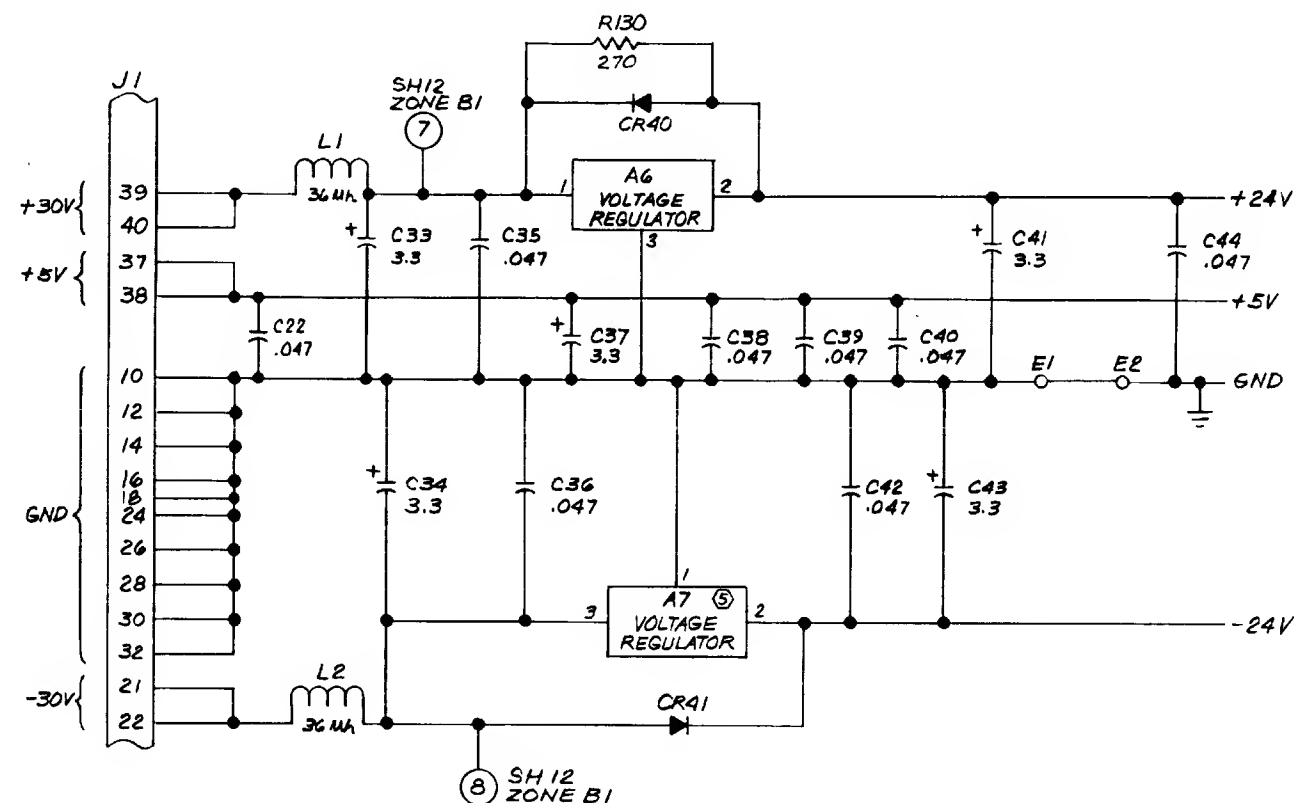
INTEGRATED CIRCUIT VOLTAGE CHART		
VOLTAGE	PIN NO.	I.C. REF DES
+5V	8	A1
+5V	14	6A, 7A, 9A, 10A, 1B, 3B, 7B, 10B-13B, 1C, 4C-7C, 9C, 10C, 1D, 2D, 4D, 5D, 9D-12D, 1E, 4E, 5E, 7E-10E, A2, A3
+5V	16	4A, 8A, 11A, 8B, 9B, 2C, 3C, 8C, 6D-8D, 6E
GND	4	A1
GND	7	6A, 7A, 9A, 10A, 1B, 3B, 7B, 10B-13B, 1C, 4C-7C, 9C, 10C, 1D, 2D, 4D, 5D, 9D-12D, 1E, 4E, 5E, 7E-10E, A2, A3
GND	8	4A, 8A, 11A, 8B, 9B, 2C, 3C, 8C, 6D-8D, 6E

REF DES LAST USED		REF DES NOT USED	
11A	DL 1	1A, 2A	R63
13B	CR 7	5A, 3D	R3456
10C	E8	2B	C3, 16
12D	C111		R66
12E	R76		R2B
A6	TP9	(14)	R15
		(19)	C85, G
L2	(24)		R41, 65
JPR3		C26-27, 35, 39, 45, 53, 54, 55, 73, 82, 87-97	

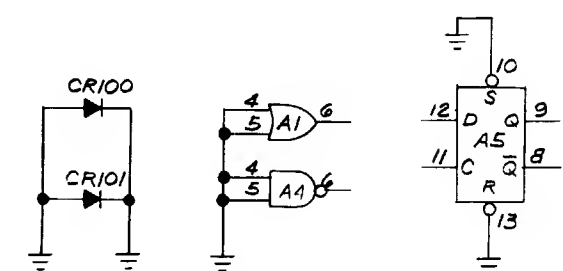
CALIFORNIA COMPUTER PRODUCTS INC. <input type="checkbox"/> 1270 NORTH HEMLOCK BLVD. ANAHEIM, CALIFORNIA 92816 <input type="checkbox"/> 3811 WEST LA PALMA, ANAHEIM, CALIFORNIA 92816			
FMS ASSY, DATA SEPARATOR (SCHEMATIC)			
DRAWN <u>CG.TANZO</u>		SIZE <u>2-G-77</u>	
CHECK <input type="checkbox"/>	<input type="checkbox"/>	D <u>17530-001</u>	REV <u>9</u>
APP'D <input type="checkbox"/>	<input type="checkbox"/>	SCALE: _____	
SCALE: _____		SHEET B OF 9	



CALIFORNIA COMPUTER PRODUCTS INC. 1270 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92805 3411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92806			
PWB ASSY, DATA SEPARATOR (SCHEMATIC)			
GR33			
DRAWN	44 R WILSEY	3/16/77	SIZE
CHECK			D
APP'D			17530-001
SCALE: 1:1			SHEET 9 OF 9



SPARES



⑤ VALUE TO BE SELECTED IN TEST FROM 2.61K (90367-243), 3.65K (90367-292), 5.62K (90367-355), 11.5K (90367-125) OR OMIT. SELECT R129 FOR A HEAD WRITE CURRENT OF 84 MA. MIN., 892 MA. MAX. FLAT-TO-FLAT, AT CYL B14. IF A7 (ITEM 12) IS REPLACED, CHECK HEAD WRITE CURRENT AND RESELECT R129 IF REQUIRED.

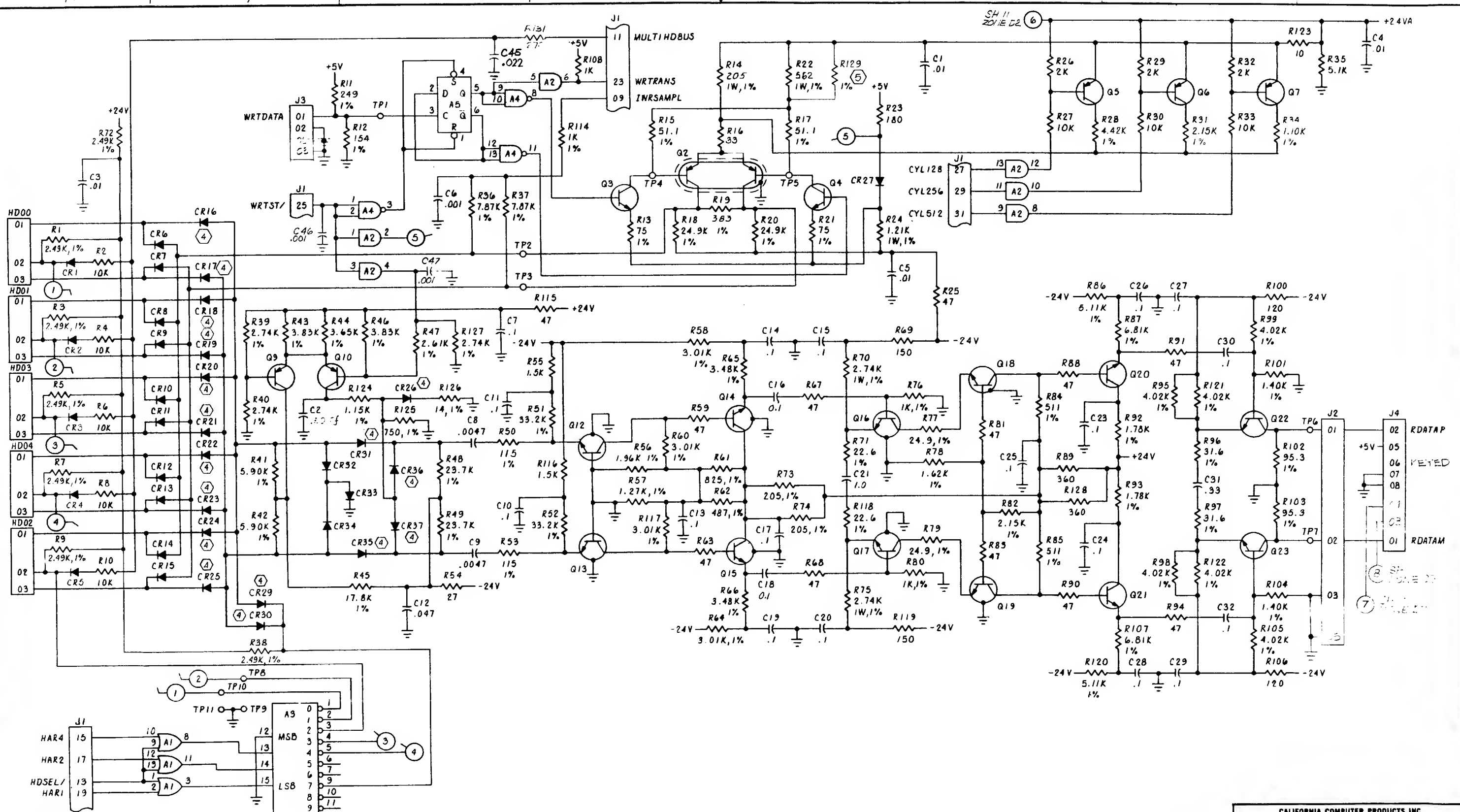
④ DIODES CR16-26, 29-31, 35-37 TO BE BATCH MATCHED, $\Delta V_f = 10\text{mV}$. FOR FIELD REPLACEMENT OF MATCHED DIODES, ITEMS 26 & 27, USE SPARE DIODES CR100 OR CR101, ITEM 29, FROM THE SAME PWB ASSY. WHEN CR100 AND CR101 ARE USED UP, FURTHER FIELD REPLACEMENT REQUIRES REPLACEMENT OF ALL DIODES, ITEMS 26, 27, 28 & 29 TO MAINTAIN MATCHING OF THE DIODES ON A GIVEN PWB ASSY.

3. ALL 1% RESISTOR ARE 1/8W.
2. CAPACITANCE VALUES ARE IN MICROFARADS.
1. RESISTANCE VALUES ARE IN OHMS, 1/4 W, 5%
NOTES: UNLESS OTHERWISE SPECIFIED.

INTEGRATED CIRCUIT VOLTAGE CHART		
VOLTAGE	PIN NO.	I.C. REF. DESIGNATOR
+5V	14	A1, A2, A4, A5
+5V	16	A3
GND	7	A1, A2, A4, A5
GND	8	A3

REF. DES. LAST USED	REF. DES. NOT USED
A7	R131
C47	TP11
CR101	CR28
E4	L2
J4	CR42-99
Q26	⑧

CALIFORNIA COMPUTER PRODUCTS INC. 1270 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92806 2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801			
PWB ASSY, READ/WRITE MATRIX (SCHEMATIC) VR89			
SCALE:	SIZE	M	
D		17589-001	
C.G. TANZO 5/20/77 SHEET 11 of 12			

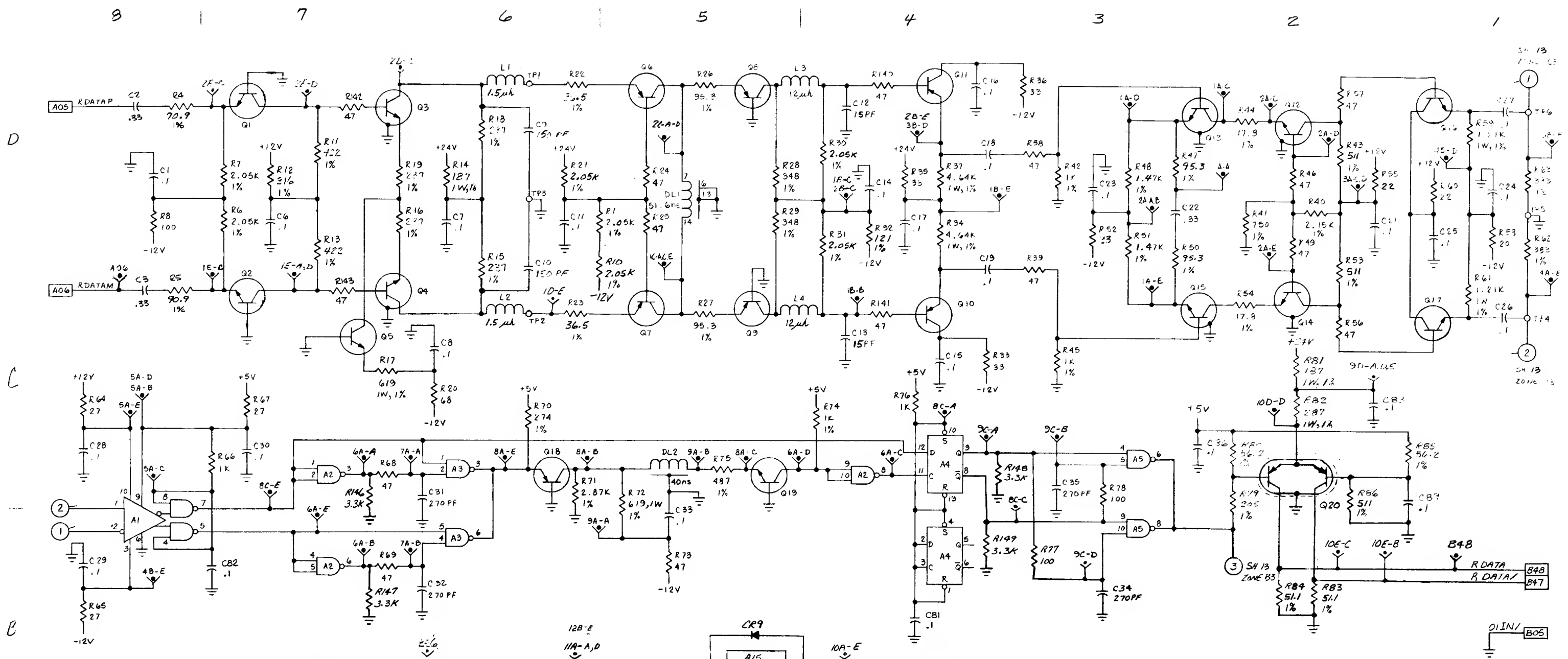


CALIFORNIA COMPUTER PRODUCTS INC.
 1270 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92806
 2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801

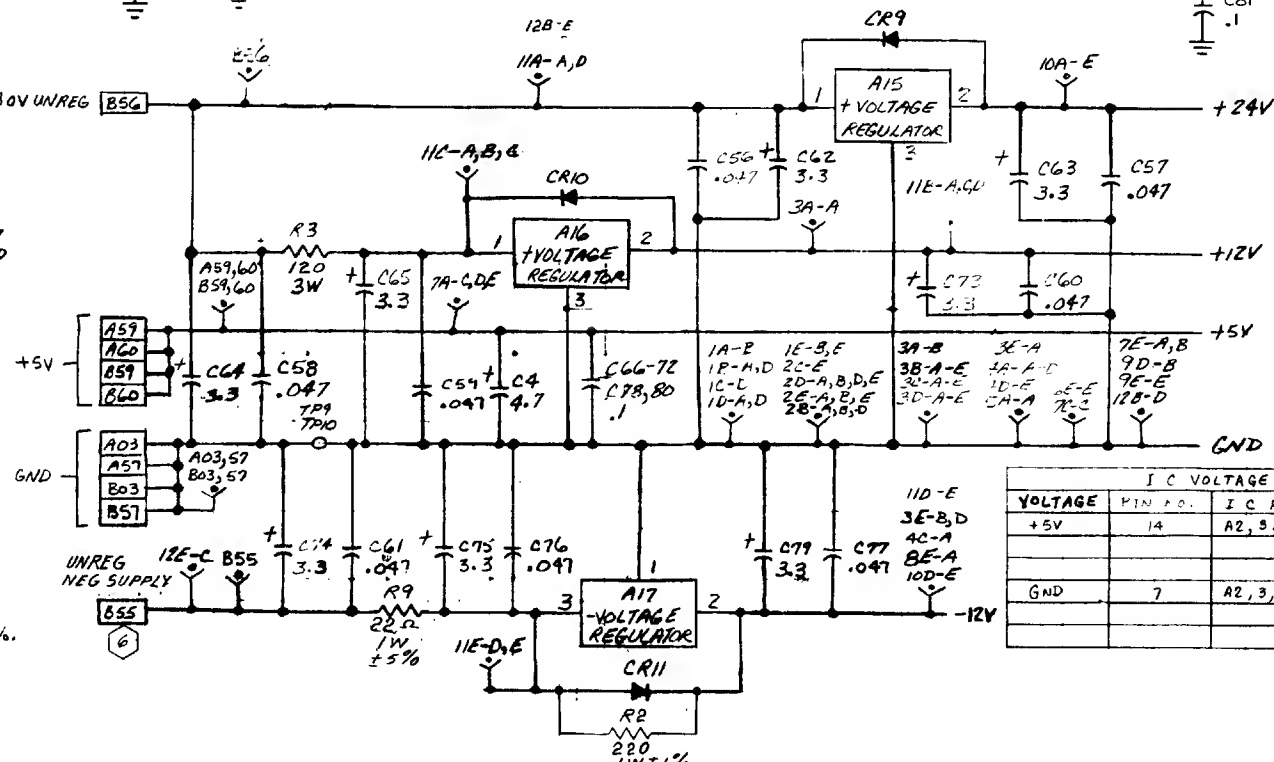
PWB ASSY, READ / WRITE
 MATRIX (SCHEMATIC) VR89

SCALE: NONE SIZE: D 17589-001

SHEET 12 of 12



6. CONNECTED TO -30 VDC THRU DROPPING RESISTOR.
5. FOR RESISTOR SELECTION PROCESS SEE SPEC 19507 START SELECTION PROCESS WITH NO RESISTOR AND PROCEED THRU DECREASING RESISTANCE VALUES. IF A6 IS REPLACED ENTIRE SELECTION PROCESS MUST BE REPEATED. VALUE TO BE SELECTED IN TEST FROM 1K (90367-103), 562 (90367-354), 365 (90367-291), 274 (90367-249), 205 (90367-207), 169 (90367-179), 133 (90367-144), 110 (90367-116), 95.3 (90367-429) & 78.7 (90367-402).
4. Y INDICATES NODE TEST POINT.
3. ALL 1% RESISTORS ARE 1/8W.
2. CAPACITANCE VALUES ARE IN MICROFARADS.
1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
- NOTE: UNLESS OTHERWISE SPECIFIED



I C VOLTAGE CHART		
VOLTAGE	PIN NO.	I C REF DESIGNATION
+5V	14	A2, 3, 4, 5, 10, 11, 12, 14
GND	7	A2, 3, 4, 5, 10, 11, 12, 14

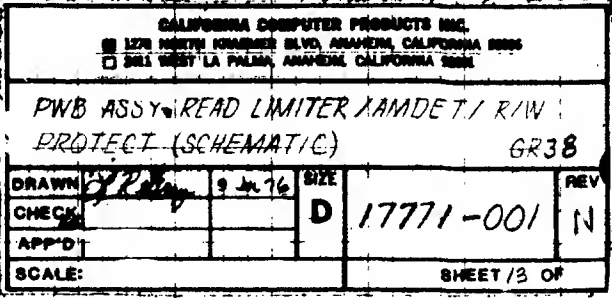
REF DES	LAST USED	REF DES	NOT USED
C89	A153	C5, 20	CR1
Q25	DL2	C50-51	R87
Q41	A17	CR8	R144
A6	Q2, 22	R145	
R11	(3)	CR5	R130

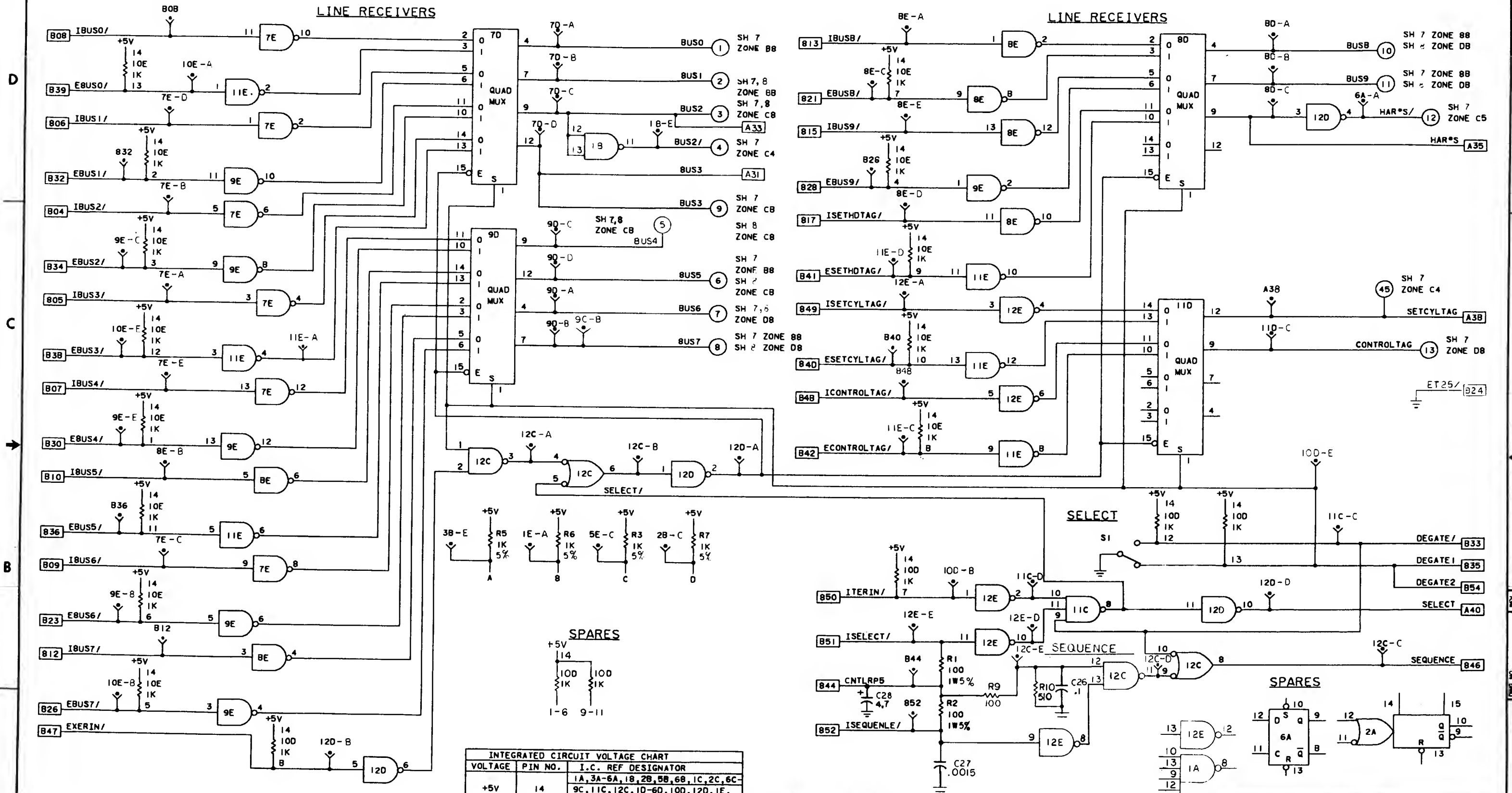
CALIFORNIA COMPUTER PRODUCTS INC.
1270 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92805
2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801

PWB ASSY, READ LIMITER / AMDET / R/W
PROTECT (SCHEMATIC) GR38

DRAWN	CHECK	APP'D	SCALE	SIZE	REV
				D	17771-001
					N

SHEET 12 OF





3. INDICATES NODE TEST POINTS.
2. CAPACITANCE VALUES ARE IN MICROFARADS.
1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 2%.

NOTE: UNLESS OTHERWISE SPECIFIED.

INTEGRATED CIRCUIT VOLTAGE CHART		
VOLTAGE	PIN NO.	I.C. REF DESIGNATOR
+5V	14	1A, 3A-6A, 18, 28, 58, 68, 1C, 2C, 6C-9C, 11C, 12C, 1D-6D, 10D, 12D, 1E, 2E, 6E-12E
+5V	16	2A, 3A, 4B, 3C-5C, 7D-9D, 11D, 3E-5E
GND	7	1A, 3A-6A, 18, 28, 58, 68, 1C, 2C, 6C-9C, 11C, 12C, 1D-6D, 12D, 1E, 2E, 6E-9E, 11E, 12E
GND	8	2A, 3A, 4B, 3C-5C, 7D-9D, 11D, 3E-5E

REF DES	LAST USED	REF DES	NOT USED
6A			
6B			
12C		10C	
12D			
12E	(47)	(38)	(40)
R11			
C28	SI		

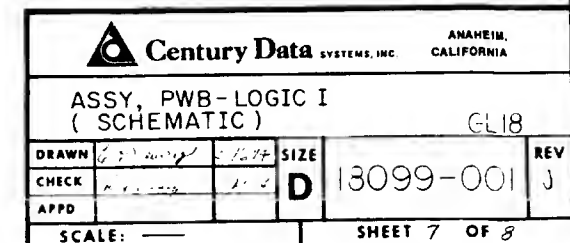
Century Data SYSTEMS, INC. ANAHEIM, CALIFORNIA

ASSY, PWB - LOGIC I (SCHEMATIC)

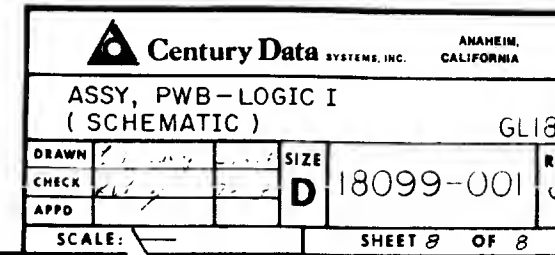
DRAWN	REV	SIZE	REV
C. Dwyer	1	D	1
CHECK			
APPD			

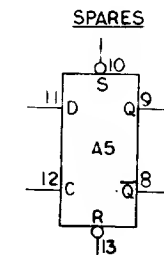
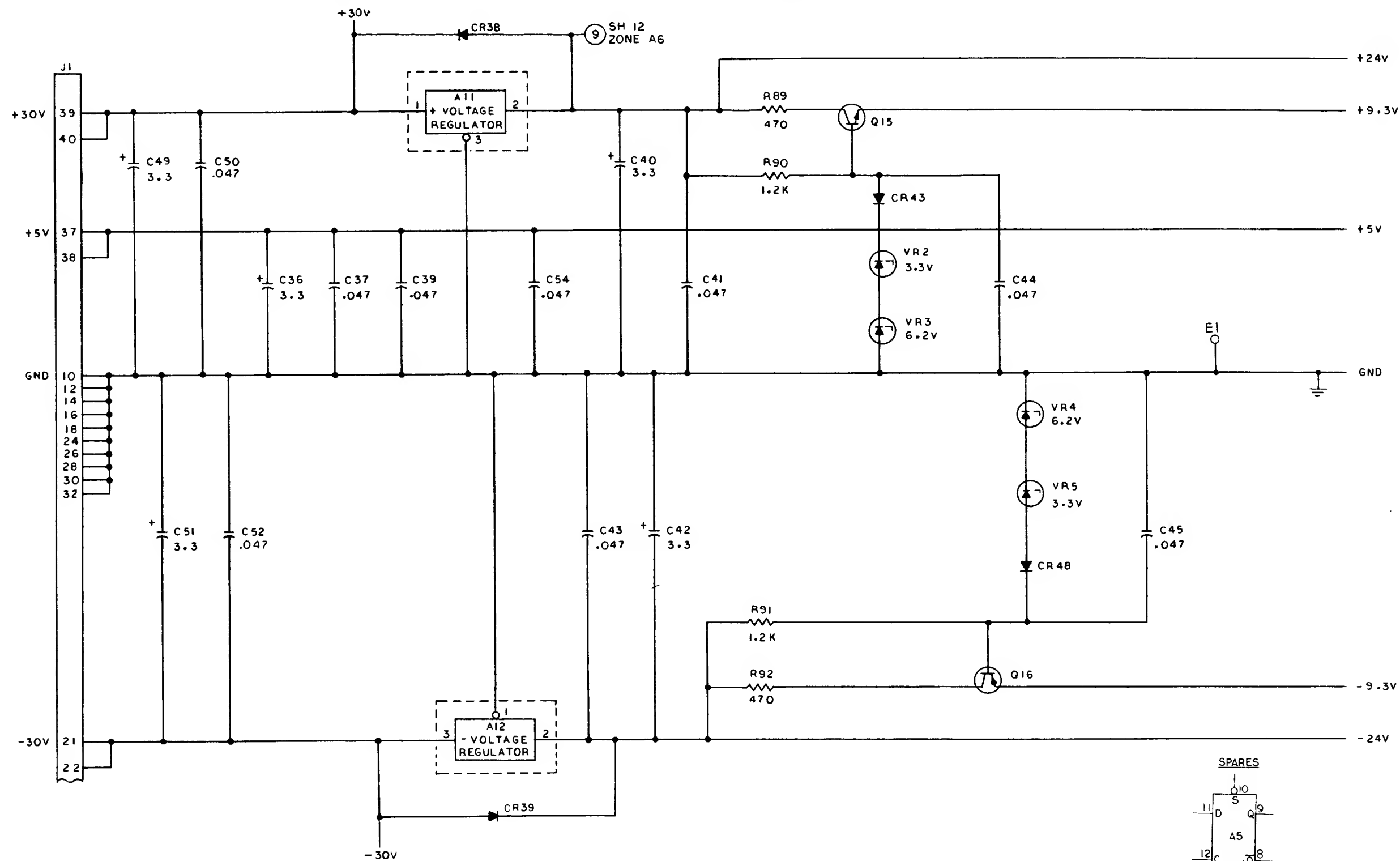
18099-001	J
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SCALE: — SHEET 6 OF 8



DIFFERENCE INPUT CONTROL





4. -O INDICATES TURRET TERMINAL TEST POINT.
3. ALL 1% AND 0.1% RESISTORS ARE 1/8W.
2. CAPACITANCE VALUES ARE IN MICROFARADS.
1. RESISTANCE VALUES ARE IN OHMS, 1/4W 5%.

NOTES: UNLESS OTHERWISE SPECIFIED.

INTEGRATED CIRCUIT VOLTAGE CHART		
VOLTAGE	PIN NO.	I.C. REF DESIGNATOR
+5V	14	A2, A4, A5
+5V	16	A3
GND	7	A2, A4, A5
GND	8	A3

REF DES LAST USED	REF DES NOT USED
R93 HD04	C38
C54 TP11	R68-R78
CR48 J4	CR41, CR42
Q17 VR5	A8
L1 T1	CR44-CR47
A12 E1	A9
	A10
	C23-C34
	C48, C53
	R80-R88
	TP1-TP4

Century Data
ANAHEIM, CALIFORNIA

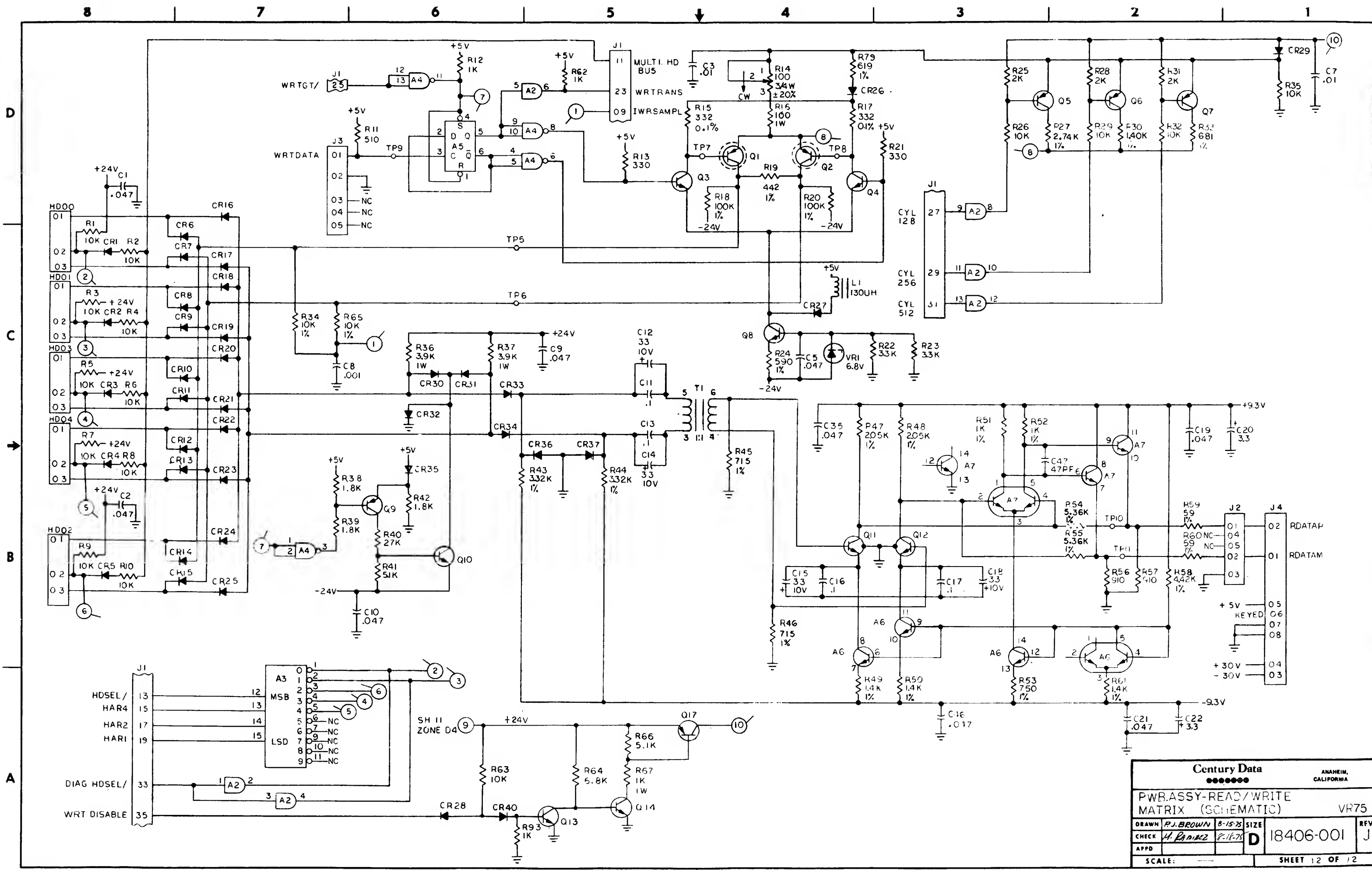
PWB ASSY-READ/WRITE MATRIX (SCHEMATIC) VR75

DRAWN *P.J. BROWN* 8-15-75 SIZE **D** 18406-001 REV **J**

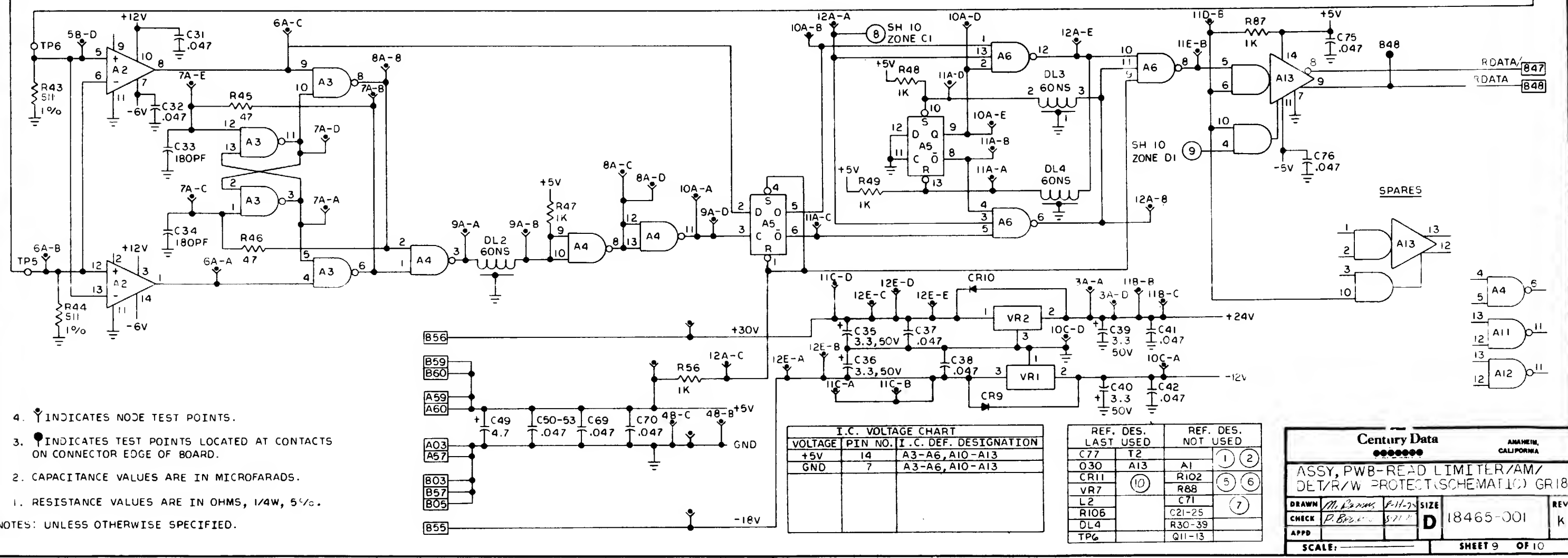
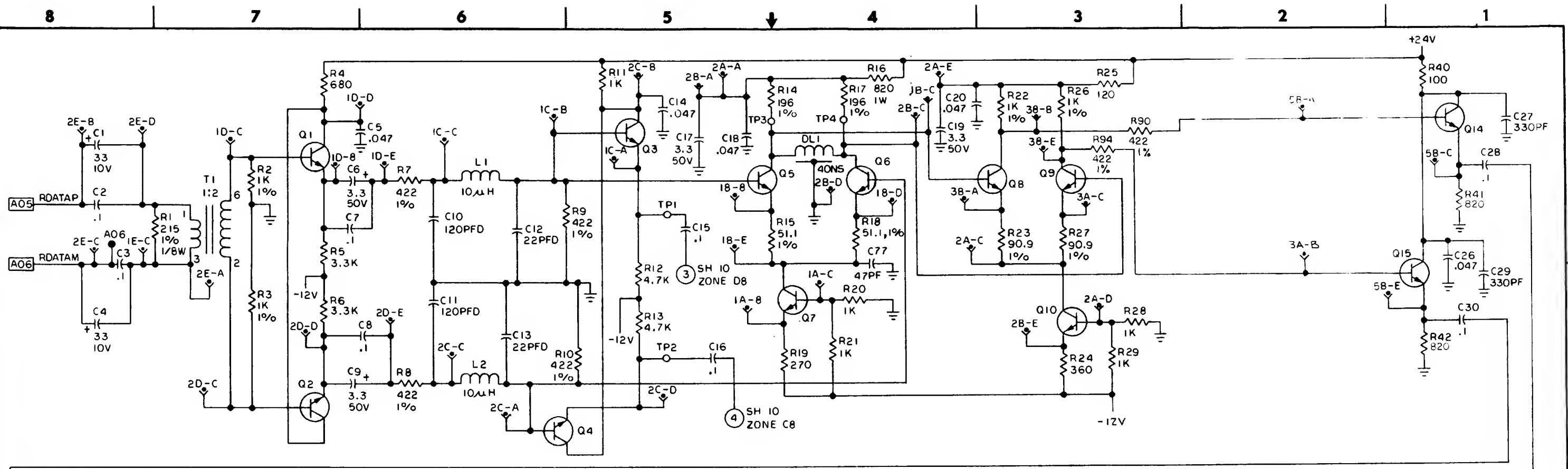
CHECK *M. Ramirez* 8-15-75

APPD

SCALE: SHEET 11 OF 12



Century Data		ANAHEIM, CALIFORNIA	
PWB ASSY-READ/WRITE MATRIX (SCHEMATIC) VR75			
DRAWN	P.J. BROWN	8-15-75	SIZE
CHECK	H. RANNEY	8-18-75	D
APPD			
SCALE:		SHEET 12 OF 12	



4. ∇ INDICATES NODE TEST POINTS.
3. \bullet INDICATES TEST POINTS LOCATED AT CONTACTS ON CONNECTOR EDGE OF BOARD.
2. CAPACITANCE VALUES ARE IN MICROFARADS.
1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
- NOTES: UNLESS OTHERWISE SPECIFIED.

I.C. VOLTAGE CHART		
VOLTAGE	PIN NO.	I.C. DEF. DESIGNATION
+5V	14	A3-A6, A10-A13
GND	7	A3-A6, A10-A13

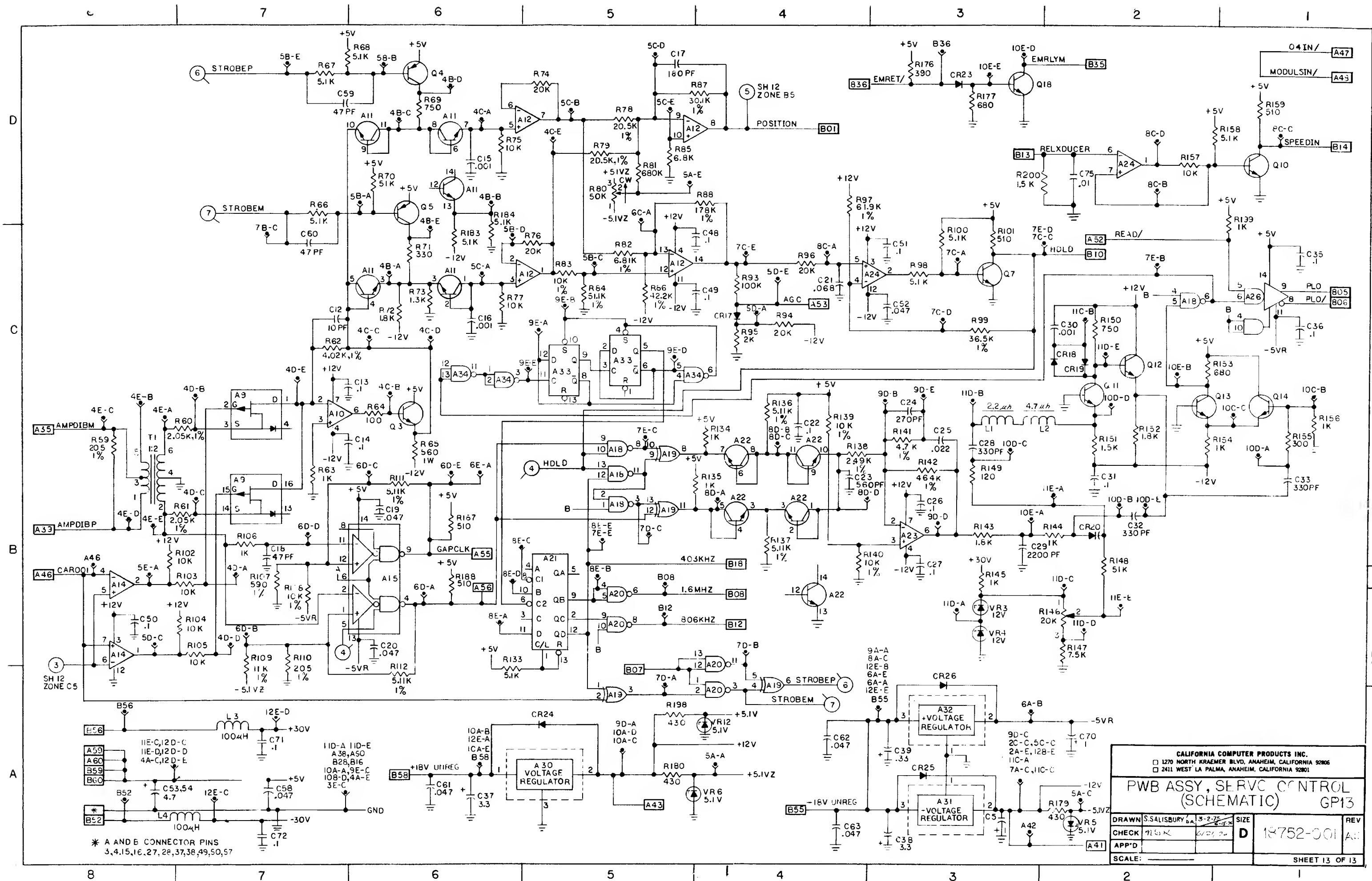
REF. DES.	DES.	REF. DES.
C77	T2	
O30	A13	A1
CR11	(10)	R102
VR7		R88
L2		C71
R106		C21-25
DL4		R30-39
TP6		Q11-13

Century Data
ANAHEIM, CALIFORNIA

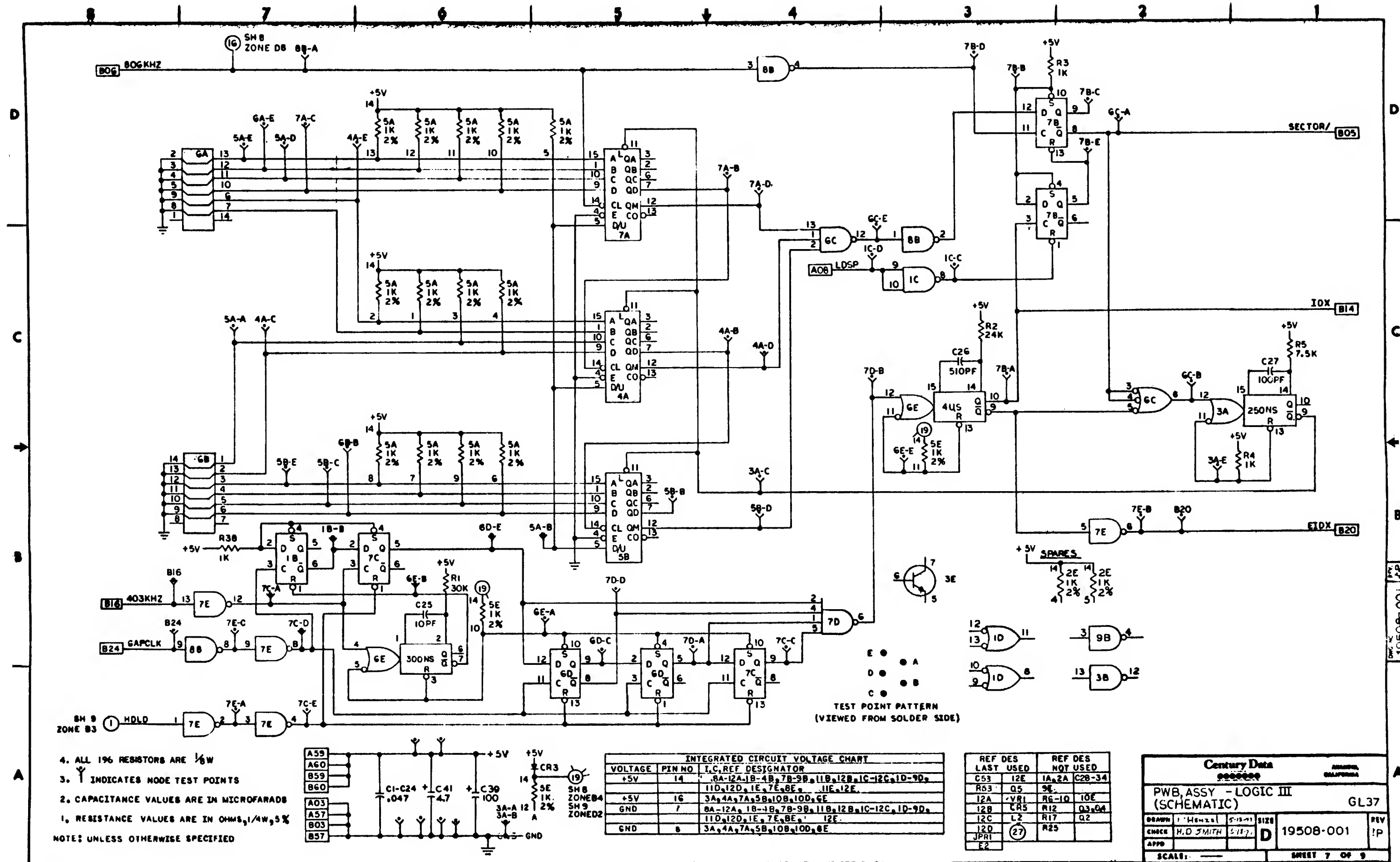
ASSY, PWB-READ LIMITER/AM/DET/R/W PROTECT (SCHEMATIC) GR18

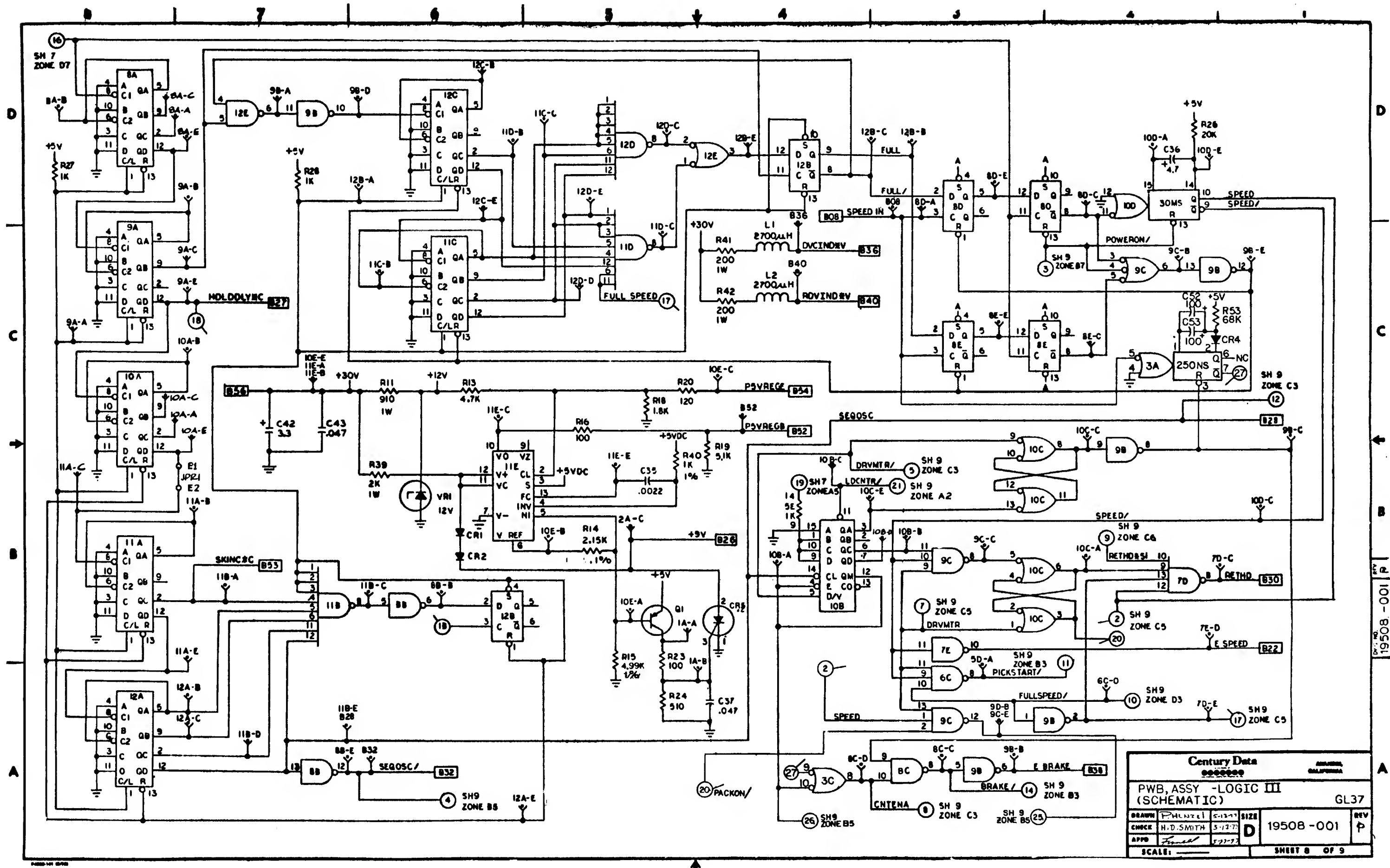
DRAWN	M. P. Jones	DATE	8-11-78	SIZE		REV	
CHECK	P. B. Jones	DATE	8-11-78	SIZE		REV	
APPD		DATE		SIZE		REV	

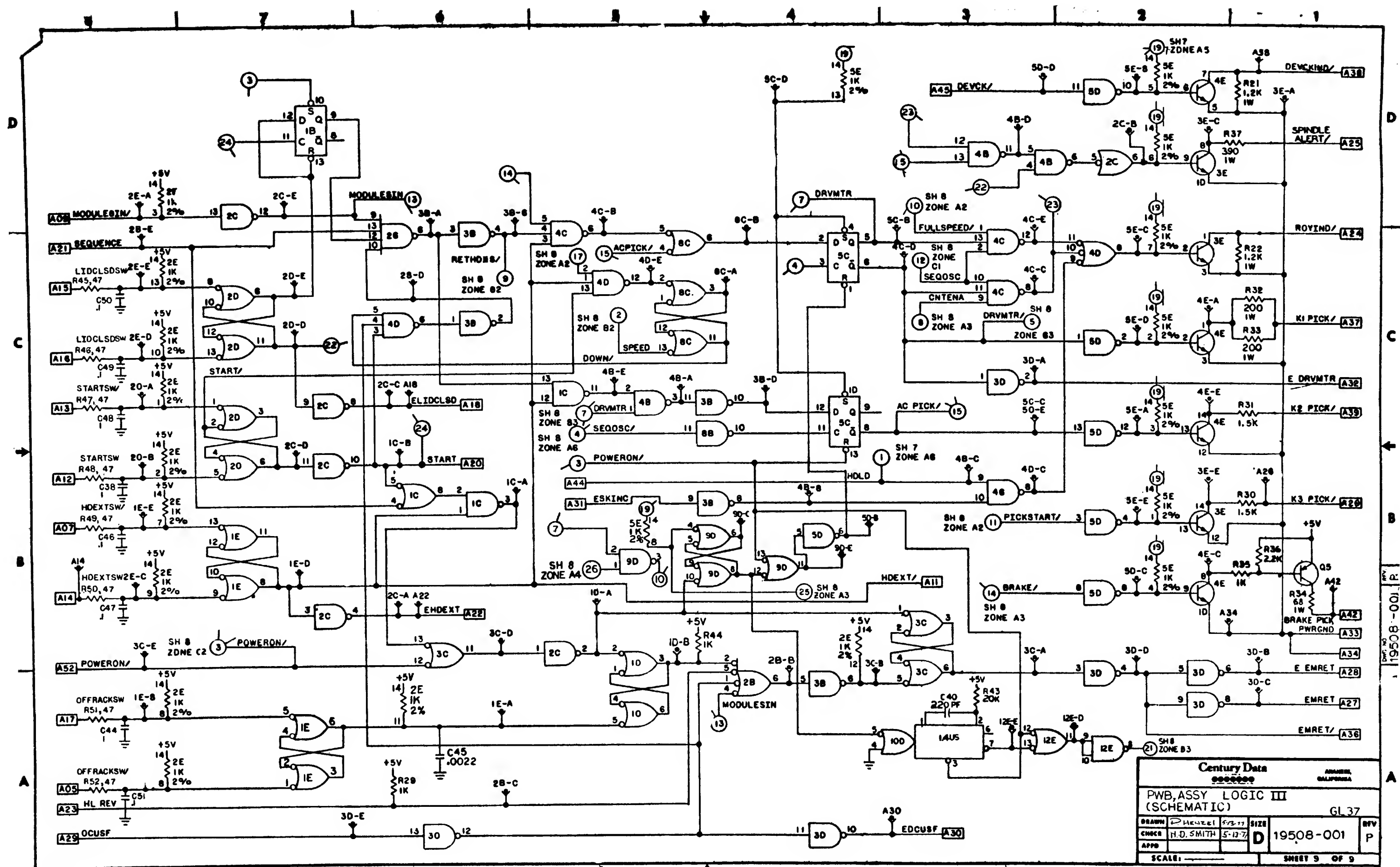
SCALE:
 SHEET 9 OF 10



CALIFORNIA COMPUTER PRODUCTS INC. 1270 NORTH KRAEMER BLVD, ANAHEIM, CALIFORNIA 92806 2411 WEST LA PALMA, ANAHEIM, CALIFORNIA 92801			
PWB ASSY, SERVC CONTROL (SCHEMATIC) GP13			
DRAWN	S.SALISBURY	3-2-75	SIZE
CHECK	M.S.K.	6/2/75	D
APP'D			
SCALE:		SHEET 13 OF 13	

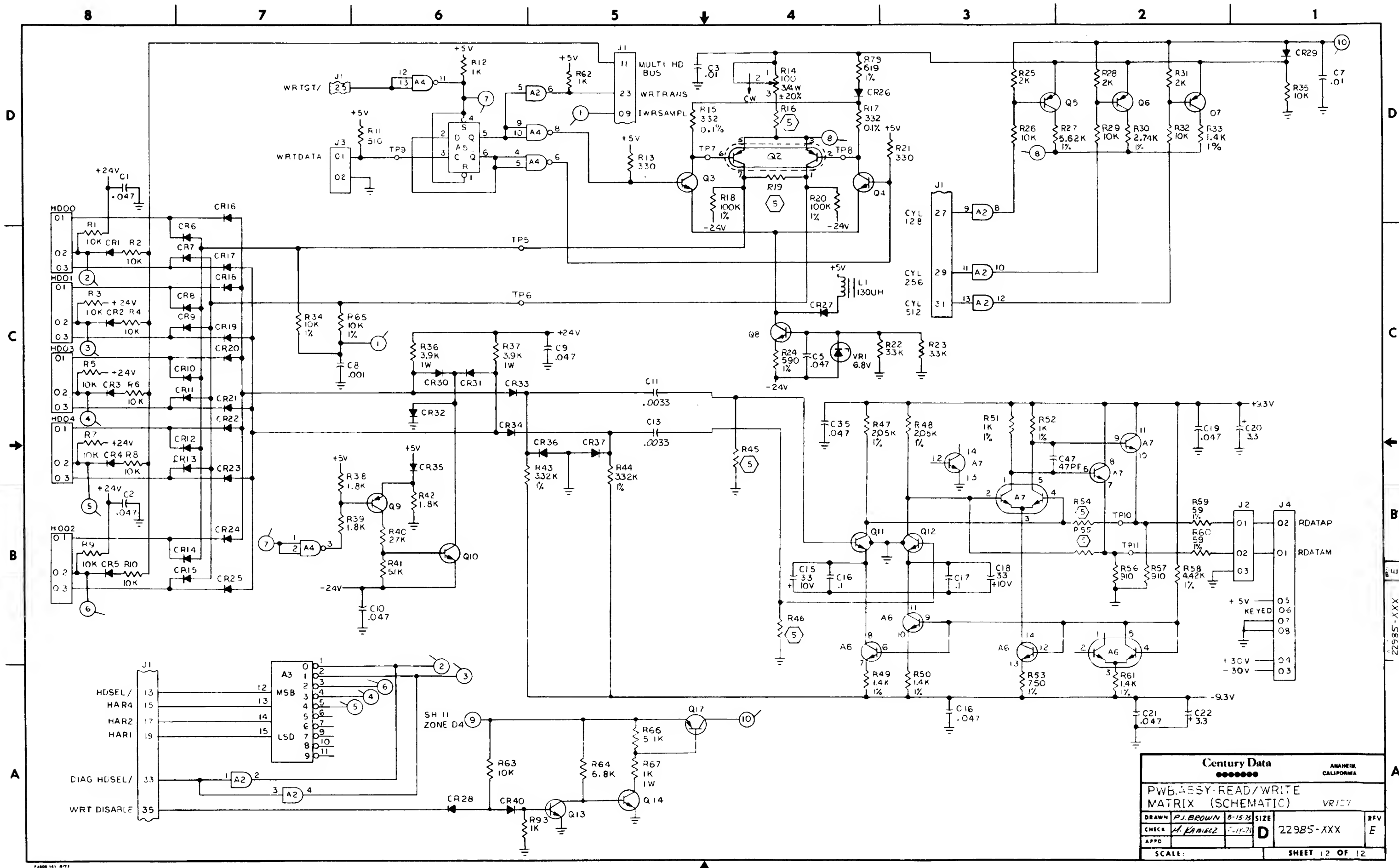






Century Data				ARABIAN, CALIFORNIA	

PWB, ASSY LOGIC III (SCHEMATIC)				GL 37	
DRAWN	PHENEL	5-3-77	SIZE	19508-001	REV
CHECK	H.D. SMITH	5-13-77	D		P
APPD					
SCALE:				SHEET 9 OF 9	



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